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САТЕЛЛАЙТ

1011 ГЛОБАЛЬНЫЙ ЖУРНАЛ О ЦИФРОВОМ ТЕЛЕВИДЕНИИ 10-11/2010



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Кевин Спаун завоевывает новые территории экономичными, источниками питания с низким энергопотреблением



Обзор компаний SMARTWI

Курт Олесен переходит к продуктам второго поколения и расширяет присутствие на новых рынках



Обзор компаний DOEBIS

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PVR CAS

H.264/MPEG4





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Адрес редакции

TELE-satellite Magazine
PO Box 1234
85766 Munich-Ufg
Германия/Европейский Союз

Главный редактор

Александр Визе
alex@TELE-satellite.com

Издаётся на 22 языках

TELE-satellite Medien GmbH
Aschheimer Weg 19
85774 Unterfoehring
Германия/Европейский Союз

Дизайн

Németi Barna Attila

Реклама

www.TELE-satellite.com/ads/

Напечатано

Litografia Rosés
08850 Gavà
Испания /Европейский Союз

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ISSN 1435-7003



ТЕЛЕ-сателлайт был учрежден в 1981 году и на сегодняшний день является самым старейшим, наибольшим и наиболее читаемым журналом о цифровом телевидении, продающимся в мире. ТЕЛЕ-сателлайт в поле зрения более чем 350 000 профессионалов цифрового телевидения во всём мире и доступен, как в печатной форме, так и в режиме онлайн.

www.TELE-satellite.com

На сей раз, ТЕЛЕ-сателлайт предоставил «Приз за Инновации» продукту, который на самом деле располагается "по ту сторону". Обычно журнал ТЕЛЕ-сателлайт сосредотачивается на приёмниках, а не на передатчиках. Так почему же произошло изменение? Потому что, с IPTV (англ. Internet Protocol Television) - цифровым интерактивным телевидением в сетях передачи данных по протоколу IP - телевидением через Интернет - начинает постепенно разворачиваться новая эра! Почему? Давайте бросим более близкий взгляд на технологию приема: не имеет значения, - спутниковый ли это прием, наземный прием или прием через кабель: там были всегда две стороны технологии - передатчик и приёмник. Это не имело значения, когда телевизионный сигнал посылали без проводов, то есть, переданный через спутник или наземным способом, или через кабель, как в сети кабельного телевидения, каждый канал должен быть передан одновременно и затем выбран блоком настройки в приёмнике. Но этот основополагающий принцип не сохраняется для цифрового интерактивного телевидения в сетях передачи данных по протоколу IP: передатчик IPTV посылает только определенную программу, ту, которую запросил приёмник на другом конце. Больше нет никакого блока настройки! На первый взгляд это не выглядит, чем-то совершенно первостепенным, но после повторного рассмотрения Вы поймёте, что приёмник IPTV, безусловно, намного менее дорогостоящий. Приёмник IPTV - получатель без блока настройки. Некоторые изготовители даже называют эти приёмники "устройствами без блока настройки" (tuner-less boxes); остающиеся компоненты адресатов IPTV почти идентичны тем, которые могут быть найдены в каждом спутниковом, наземном или кабельном приёмнике. Приёмники без блоков настройки также означают ещё нечто: больше нет вообще никаких антенн! Устройство отображения всегда определяло затраты, чтобы установить надлежащую антенну, была ли это спутниковая зеркальная антенна или наземная антенна. Кабельный поставщик отвечал за капиталовложения, полностью оплачивая установку при подключении коаксиального кабеля на протяжении всей длины до гостиной комнаты с устройством отображения информации. Но позже поставщик был способен возместить эти затраты через месячную абонентскую плату, которую должен был возместить владелец средства просмотра за обслуживание кабеля. Другими словами, стоимость приема всегда возлагалась на сегмент устройств отображения и просмотра информации. С цифровым интерактивным телевидением в сетях передачи данных по протоколу IP по большей части исчезли такие затраты. Интернет-подключение сегодня рассматривается как стандартное подключение наряду с электропроводкой. ТЕЛЕ-сателлайт никогда не обсуждал, как снабдить приёмники электроэнергией; это было очевидно! И в наши дни также безопасно предположить, что у каждого телевизионного устройства просмотра и отображения есть интернет-подключение. Нет потребности, волноваться об очевидных вещах. Если Вы можете предположить, что у каждого домашнего хозяйства есть Интернет подключение то, это означает, что IPTV (англ. Internet Protocol Television) - цифровое интерактивное телевидение в сетях передачи данных по протоколу IP стало недорогой дополнительной возможностью для просмотра телевидения. И это - также истина для того, кто намеревается быть программным поставщиком, это также должно быть учтено им. По общему признанию, так как мы находимся во всем мире всё ещё на начальных стадиях доступа к высокоскоростному Интернету, действительность состоит в том, что мы еще не продвинулись достаточно далеко, но ясно, что исследования выходят на это направление. При IPTV (англ. Internet Protocol Television) - цифровом интерактивном телевидении в сетях передачи данных по протоколу IP, трансляция канала, также как и прием канала, настолько малозатратен, что любой мог бы потенциально быть программным директором. Бесконечная свобода, которую спутниковое телевидение дало нам несколько десятилетий назад, теперь вновь ощущается заново в эпоху IPTV - цифрового интерактивного телевидения в сетях передачи данных по протоколу IP с той же бесконечной свободой, доступной теперь для поставщиков программ: каждый может быть выпускающим программным редактором, и он может транслировать столько каналов, сколько пожелает. Ограничений больше нет!



Александр Визе
Главный редактор ТЕЛЕ-сателлайт



Technomate

Linux High-Definition



Linux
Inside



TM-800 HD running Enigma

- ✓ Open Source Linux Satellite HD running Enigma
- ✓ Supports internal 2.5" HDD
- ✓ 2x USB 2.0 Ports: PVR function, MP3 & JPEG Playback & Software Transfer
- ✓ Record 1 Channel & watch another at the same time
- ✓ Optional WiFi module
- Unlimited Channels • 1080p, 1080i, 720p, 576p & 576i • MPEG-2, MPEG-4 & H.264
- Timeshift • Built-in Upscaler to Improve Standard Picture Quality
- Ethernet • RF Modulator • 1 Smart Card Reader & more!

Linux Open Source Running Enigma

TM-500 / TM-600

- ✓ Open Source Linux running Enigma
- ✓ Unlimited Channel Memory
- ✓ Ethernet Communication Port
- ✓ 2x Scart Outputs
- ✓ RF Modulator
- ✓ Smart Card Reader
- ✓ Super Sensitive Tuner
- ✓ Internal Power Supply

TM-600 Extras

- ✓ 3x USB 2.0 PVR (Front, Internal & Rear)
- ✓ Record/Playback Scrambled & Free-To-Air (FTA) Channels by USB
- ✓ USB 2.0 for Software Download & MP3 Playback
- ✓ Component Output (YPbPr)



TM-500



TM-600

TM-7100 HD TRIPLE TUNER PVR

2x Satellite HD Tuners & 1x Terrestrial Tuner

- ✓ Supports up to 1TB S-ATA 3.5" & 2.5" HDD
- ✓ Easily remove HDD via HDD Bay on side of TM-7100 HD
- ✓ 2x USB 2.0 Ports: PVR function, MP3 & JPEG Playback & Software Transfer
- ✓ Record:
 - 1 Channel from each Tuner & Playback a Recorded File at the same time
 - 3 HD Satellite Channels at the same time (2 have to be on same TP)
- ✓ 2x Smart Card Readers & 2x Common Interface (CI)
- ✓ Ethernet Communication Port, RF Modulator, Blind Search & more!



FULAN

FuLan Electronics Ltd

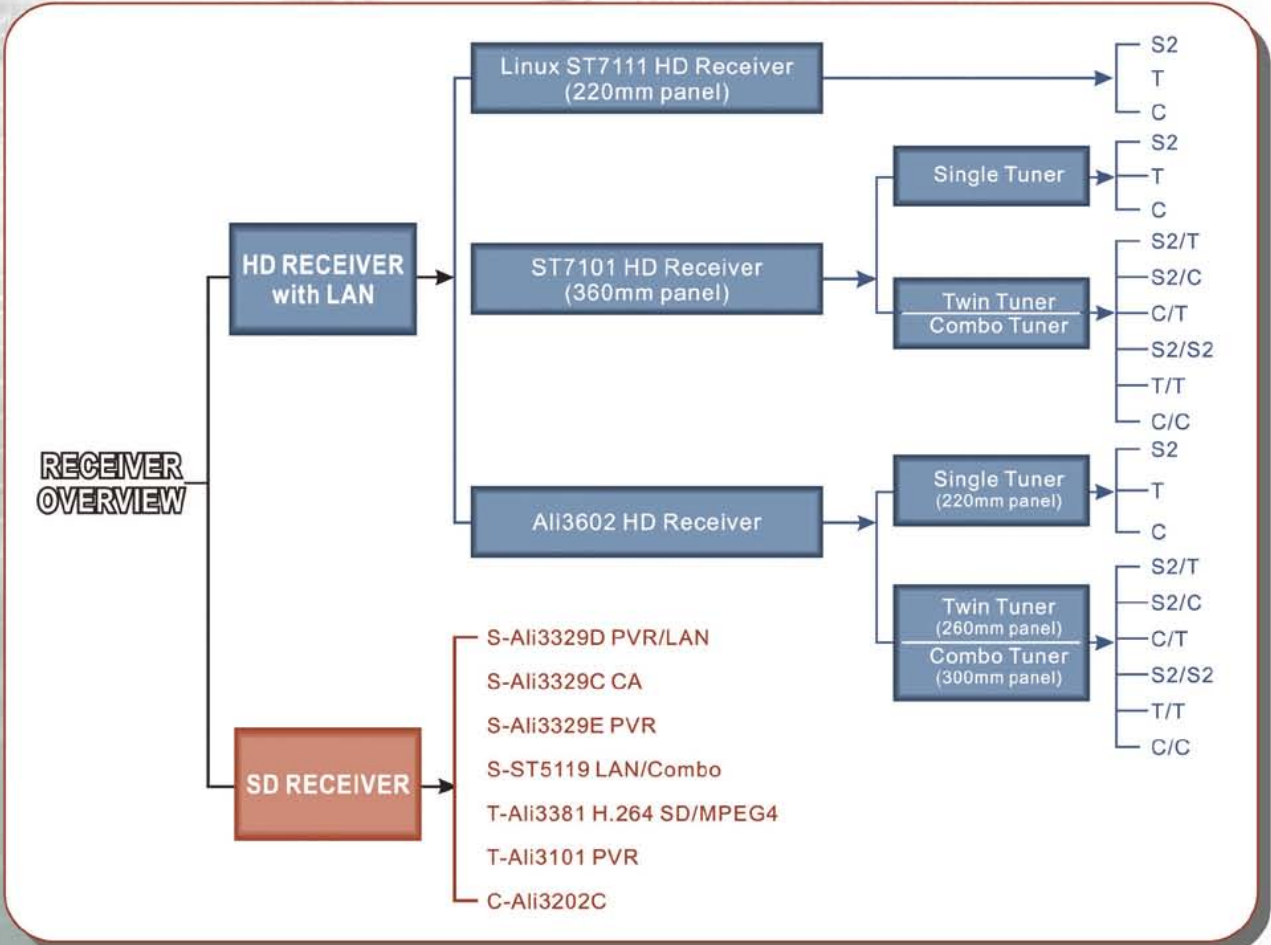
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TOP DIGITAL HD BOX DESIGNER FROM CHINA



Linux
HD Box

ONE BOX ONE DREAM-LINUX BOX



www.fulansoft.com

Address: 3/F, A1 Block, Cyber-Tech Zone, Gaoxin AVE. 7.S, Hi-Tech Industrial Park, Nanshan Dist., Shenzhen, China.

NETUP DVB-IP GATEWAY 4X

IPTV Gateway for DVB Signals 12



**SK60-PWT19
OFFSET DISH
OF SVEC**

Two-way Mountable
Offset Dish for
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HORIZON HD-S2

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**JQB4P - 4.3° QUAD
MONOBLOCK LNB OF
JIUZHOU**

Universal Ku Band
Monoblock Quad LNB
for 4.3° Spacing 40

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OUTSTANDING STB HARDWARE MANUFACTURER FROM CHINA



HT12 DVB-T HD PVR

- SD MPEG-2/HD H.264 & fully DVB-T compliant
- 4000channels TV and Radio programmable
- Support multi-language OSD
- PVR, Timeshift



HTS11 DVBS2+T HD Combo

- Fully DVB-S2/DVB-T compliant
- 4000channels TV and Radio programmable
- Support multi-language OSD
- PVR Timeshift.



HS14 DVBS2 HD Twin Tuner

- Fully DVB-S2 compliant
- 4000channels TV and Radio programmable
- Plug-in two S2 tuner
- Fully support to 7 days Electronic program Guide
- 1 x CI , CA optional with Conax Embedded
- PVR, Timeshift,



S1L DVB-S SD CA+PVR+LAN

- MPEG-2 digital@fully DVB-S Compliant
- 4000channels TV and Radio programmable
- Fully support to 7 days electronic program guide
- 10/100 Mbps Ethernet
- Software upgrade by USB, OTA, RS232 and LAN
- PVR, Timeshift



S1M DVB-S Sticker CA+PVR

- MPEG-2 digital @ fully DVB-S compliant
- 4000 channels TV and Radio programmable
- On Screen Display with multi-language
- PVR ,Timeshift ,CA optional with Conax embedded



S1N DVB-S SD FTA+PVR

- MPEG-2 digital & fully DVB-S compliant
- 4000 channels TV and Radio programmable
- Fully support to 7 days Electronic Program Guide(EPG)
- Diseqc 1.0, 1.1, 1.2 and USALS, Unicable
- PVR. Timeshift, CA optional with Conax Embedded



WE ARE DISTRIBUTOR OF **TOPFIELD** **STRONG** **VANTAGE**

JAEGER HUMAX SELF SAT SMW SWEDISH MICROWAVE AB INVACOM INNOVATION IN COMMUNICATIONS MICROELECTRONICS TECHNOLOGY INC.
ALPS GIBERTINI ALLVISION Inverto digital-labs SPAUN Stab

TOPFIELD

Topfield Media Solution

SRP-2100



Features available at launch

- Fully compliant with DVB-S2.
- * High profile level 4.1 H.264/AVC streams @ 30fps
- * High or main profile level 3.1 H.264/AVC streams @ 60fps
- * HD MPEG2 4:2:0 streams @ 30fps
- * SD MPEG2 4:2:0 streams @ 60fps
- Supports DiSEqC 1.0, 1.1, 1.2 and USALS protocols for dish control.

PVR Playing recorded programmes up to 64 times speed of maximum	GAME Featuring a double-player game „Battle Tank“	UCC Playing media contents of YouTube	DivX Supporting video files of DivX 3.11, 4.1 and 5.x
---	---	---	---

TOPFIELD

SRP-2410

NEW




- Is fully compliant with DVB-S and DVB-S2.
- Supports DiSEqC 1.0, 1.1, 1.2 and USALS.
- Two common interface slots for conditional access modules.
- Can store up to 7,000 TV services and 3,000 radio services.
- Presents Electronic Program Guide (EPGs).
- Supports time-shift up to 5 hours at maximum.
- Records two services at the same time while displaying another service.
- Can record directly to an external hard drive (through USB/eSATA ports).
- Plays back recorded programmes at up to 64 times speed at maximum.
- Plays back video files in DivX, MPG, MP4, VOB, MKV and FLV format.
- Displays image files in JPEG format
- Provides a network game named Battle Tank.
- Provides various ways for firmware update (OTA, USB, LAN).
- Makes it easier to transfer files from/to the receiver by means of an embedded web/FTP server.

TOPFIELD

TF 7700 HTCO



VISEO+
einfach. genial. digital.

Jetzt über DVB-T in Ihrer Region!


HDTV DVB-T Receiver, Conax embedded

- Receives MPEG2- und MPEG4-encoded free and Pay-TV programs
- Certified for the premium-DVB-T VISEO+
- HDMI Digital video & audio output in 576p, 720p und 1080i
- Conax-System with cardreader for VISEO+
- HDMI Video-output

HDTV Receiver Selection

TOPFIELD

CBP-2001CI+




HDTV DVB-C Receiver

- HDTV PVR ready to external storage devices via USB port
- Output to 576i, 576 p, 720 p, 1080i with Upscaling SD content
- Playback of DivX, DivX HD, MKV-and VOB video files *
- Display subtitles (* .srt) media files
- Playback of MP3 files and display JPG image files
- Timeshiftpuffer with a length of up to 5 hours
- Fast forward and rewind with up to 64 x speed
- Numeric display
- 2 CI + shafts modules for pay TV
- Storage of 7000 tv and 3000 radio programs
- Firmware upgrade over USB4

TOPFIELD

SBP-2001CI+



HDTV DVB-S Receiver

- HDTV PVR ready to external storage devices via USB port
- Output to 576i, 576 p, 720 p, 1080i with Upscaling SD content
- Playback of DivX, DivX HD, MKV-and VOB video files *
- Display subtitles (* .srt) media files
- Playback of MP3 files and display JPG image files
- Timeshiftpuffer with a length of up to 5 hours
- Fast forward and rewind with up to 64 x speed
- Numeric display
- 2 CI + shafts modules for pay TV
- Storage of 10.000 tv and radio programs
- Firmware upgrade over USB4

JAEGER

HDCI 2010



HDTV - DVB-S Receiver

- 1 x Common interface slot
- HDTV & SDTV
- Video-resolution 1080i, 720p, 576p
- USB 2.0 host for playback of external hard drive or USB flash drive
- Easy find software (works only in conjunction with easy find LNB)
- 5000 Program presets
- HDMI out with HDCP

USB 2.0 HDMI 1x Common Interface

STRONG

SRT 6205 - PVR Ready



USB recording capability

- Digital Satellite Receiver
- UHF Modulator to connect the receiver to TV
- 2 Common Interface slots
- USB port

SRT 7100

NEW



HDTV Receiver, USB PVR Ready

- HDTV (1080i) receiver for all digital FTA TV and Radio programmes via satellite*
- With IR extender for freedom of placement
- USB port for recording of TV and radio programmes, playing MP3 music and viewing JPG images

JAEGER

HD+2011CI+



HDTV - DVB-S Receiver

- USB 2.0 host for playback of external hard drive or USB flash drive
- 1 x Common interface slot

NEW

- PVR ready. Direct recording via USB on external storage media possible
- HDTV & SDTV
- 1 x smart card reader
- EPG (7 days in advance)
- Video-resolution 1080p, 1080i, 720p, 576p
- optical signal to the align the antenna
- 5000 Program presets
- Multilingual screen menu
- HDMI out with HDCP
- Radio reception with background display
- Standby power consumption < 1 Watt

Dishes

GIBERTINI TRIAX PRODELIN.



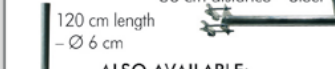
40 cm	- White
70 cm	- White, Black, Red
90 cm	- White, Black, Red
100 cm	- White, Black, Red
120 cm	- White
130 cm	- White, Black

Big dishes directly from our warehouse!

- 160 cm	- 300 cm
- 180 cm	- 370 cm
- 240 cm	

NEW

Balcony mounting parts



25 cm distance - Steel
50 cm distance - Steel

120 cm length - Ø 6 cm

ALSO AVAILABLE:

- Balcony stand 100 cm Aluminium
- Balcony stand 100 cm Steel
- Balcony stand "Holland"
- Balcony holder L-form 25 cm
- Balcony holder L-form 50 cm

DOEBIS expertise in satellite technology

Your competent partner for over 22 years



HD+ and CI+

New HD+ and CI+ Products available

HD +

by ASTRA

NEW

Common Interface Plus

TOPFIELD

TF 6200 VI

Digital Satellite Receiver with VIACCESS embedded

- Fully DVB-S compliant
- VIACCESS CAS embedded
- 5000 service TV & Radio programmable
- Multilingual audio/menu text supported
- Service list/Favorite service list editing
- 256 color On-Screen Display (OSD)
- Electronic Program Guide (EPG) supported

HDTV Receiver Selection

VANTAGE

VT-1 Full HD PVR

NEW

DVB-S Twin FULL HDTV Receiver

- Two DVB-S2 tuner
- 4:3, 16:9, HDTV 720p, HDTV 1080p
- Video MPEG ISO 2/4, MPEG-4 HD / H.264
- 2x USB
- HDMI
- 2 CI and 2 Smart card Reader
- Time shift supported

TOPFIELD

TF 7750 HDPVR

HDTV-DVB-S Receiver, Twin Tuner

- Twin tuner for two simultaneous HD recordings
- Receive DVB-S/DVB-S2 standard
- Front USB to connect of an external storage medium
- Time shift supported
- Output in 576i, 576 p, 720 p, 1080i
- 2 Common interface

Multifocus Dish

Professional multisatellite system

- Suitable for M-ML dishes ø 85/100/115cm
- Mount with Skew adjustment of the dish for a perfect alignment of the received satellites
- Multi-feed-holder designed for an easy pointing

An innovate system to receive the signal from various satellites at the same time, using one fixed mount, high gain, offset dish. When there is a big difference between longitude of the receiving dish and that of the transmitting satellite, the pointing of the dish leads to another "disalignment" between the antenna axis and the Clarke belt. This system, by the rotation of the parallel dish, allows axis realignment, assuring a stronger signal.

Optical fibre LNB

Innovation in Communications

Fibre LNB / Fibre Flange LNB

with optical fiber connection

AVAILABLE ACCESSORIES:

- Optical 2, 4 or 8 way MDU can imitate a twin, quad or quatto LNB, and you can have up to 32 MDUs from one Fibre Optic LNB
- 1x2, 1x4 or 1x8 optical fibre coupler
- Optical cable from 1,0 meter up to 200 meters

The Fibre Optic LNB can feed the whole Ku-band to up to 32 end-points.

Full LNB range INVACOM available as:
SNH-031, TWH-031, QTH-031, QDH-031, SNF-031, TWF-031, QTF-031 and QDF-031

Parts

Multifeedholder for 2, 3, or 4 LNB

Wallmounts

- 15 cm distance – Aluminium
- 25 cm distance – Aluminium
- 35 cm distance – Aluminium
- 45 cm distance – Aluminium
- 55 cm distance – Aluminium
- 35 cm distance – Steel
- 45 cm distance – Steel
- 50 cm distance – Steel
- 70 cm distance – Steel

F-Connector – 7 mm
F-Connector – 7 mm waterresistant
F-Connector – 4 mm and more

Remotesystems

- AV-Linker – Videosender for remote control
- Remote Blaster
- Zipline 2 and more

Koaxialcable

- High Quality coax cable
- Minicable Coax
- Mini-Twincable Coax
- > 100 dB / > 110 dB

LNBs

- MTI
- BEST
- INVACOM
- ALPS
- INVERTO
- MAXIMUM
- TITANIUM, etc.

- Single Universal
- Twin Universal
- Quattro Universal
- Quad Universal
- Octo LNB
- Monoblock Single Universal
- Monoblock Twin Universal
- Monoblock Quad
- C Band
- Circular
- and many more

Inverto

- Red Extend - 40mm, 0,3dB
- Black Premium - 40mm, 0,2dB
- Black Ultra - 40mm, 0,2dB
- Black Multiconnect - 23mm, 0,2dB

All available as:

- Single Universal
- Twin Universal
- Quattro Universal
- Quad Universal

Full LNB range INVERTO available from stock

Motors

Aktuatoren/ Actuators

Mini Actuators – 6", 8", 10", 12"
Regular Actuators – 12", 18", 24"
Heavy Actuators – 24", 36"

H-H Mounts

- SG 99 / SG 99 II – up to 1,00 m
- SG 107 – up to 1,10 m
- SG 2500 A DiSEqC 1.2 – up to 1,00 m
- Stab HH100 DiSEqC 1.2 – up to 1,00 m
- Stab HH120 DiSEqC 1.2 – up to 1,20 m

Multiswitches/ DiSEqC-Switches

- SPAUN
- DTRON
- JAEGER
- JOHANSSON
- MAXIMUM
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NetUP DVB-IP Gateway 4x
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Шлюз NetUP DVB-IP 4x

Теперь Вы также можете быть выпускающим телевизионным редактором!



Всего лишь несколько лет тому назад телевидение через Интернет или Ethernet было вне нашего воображения. Сегодня, однако, оптоволоконные кабели с высокой пропускной способностью и длительная загрузка посредством широкополосного подключения в гостиной комнате стали действительностью. IPTV (англ. Internet Protocol Television) - цифровое интерактивное телевидение в сетях передачи данных по протоколу IP - одна из многих возможностей, которая в эти дни конкурирует со спутниковым и кабельным телевидением. Задумывались ли Вы когда-либо, как на самом деле информационное наполнение распространяется в сетях передачи данных по протоколу IP?



Чтобы ответить на этот вопрос, мы исследовали DVB-IP шлюз, предлагаемый NetUP, который является идеальной системой для небольших систем передачи данных, таких как в гостиницах или больницах, но также и для частных пользователей или кого-либо ещё, кто захочет распространить телевизионное информационное наполнение в сети Интернет. Шлюз NetUP DVB-IP Gateway 4x - профессиональный продукт, это означает то, что, вся технология упакована в 19 дюй-

мовый корпус. В конечном итоге, все важные интерфейсы подключения расположены как на передней, так и на тыловой панелях, что является дополнительным намёком на то, что шлюз не для расположения рядом с телевизионным приёмником, а, скорее всего, должен быть установлен в корпусе выделенного сервера или профессиональной 19-дюймовой стойке.

На лицевой панели Вы найдете жидкокристаллический дисплей с двумя строками индикации текущего

операционного режима и обеспечивающий ценной вспомогательной информацией во время первоначальной установки сетевых интерфейсов. Коротко говоря, в общей сложности там шесть таких интерфейсов, все из которых могут быть настроены индивидуально. Выше этих разъемов там расположено 10 светодиодов, также справа расположено пять кнопок непосредственного управления модулями. Кроме интерфейсов сети упомянутых ранее имеются

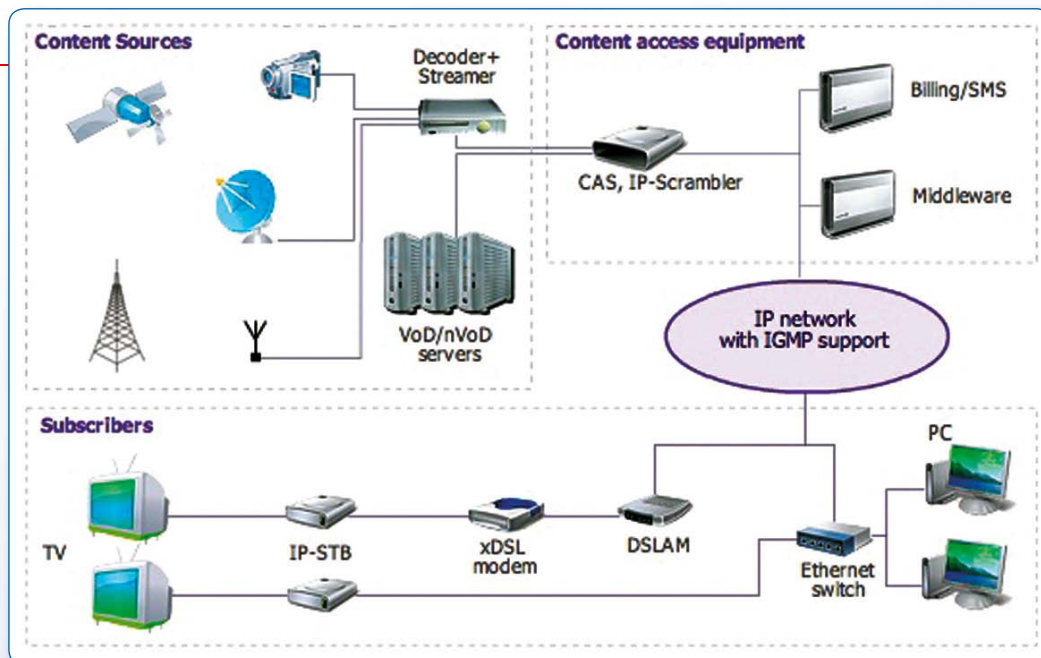
два порта USB для присоединения внешнего носителя запоминающего устройства и порт RS - 232 для того, чтобы передать информацию о состоянии на внешний пульт.

При осмотре тыловой панели мы наткнёмся на четыре спутниковых радиочастотных входа (IF). Они требуют получения сигналов для дальнейшей обработки. Поскольку мы говорим о профессиональном устройстве здесь, само собой разумеется, что каждый ввод блока настройки оборудо-



ван специализированным общим слотом интерфейса. Это означает что максимум четыре модуля входного интерфейса (CI) может использоваться с этим шлюзом для подключения, он также поставляется с механическим выключателем питания. Экстраординарность качества всех компонентов сборки, с интегрированным модулем мощности заставит при сравнении бледнеть большинство конкурентов. Модулятор распространяется с 2 Гбайтами перепрограммируемой памяти и жестким диском на 1ТБ. Профессиональное использование в большинстве случаев означает беспереывное использование, таким образом, достаточное количество внутренних вентиляторов является основной нагнетания устойчивого потока свежего воздуха.

Без них, многие чувствительные компоненты рисквали бы перегреться, что, в конечном счете, привело бы к отказу. Здесь также, более чем, очевидно, то, что этот шлюз не спроектирован для использования в гостинной комнате, так как вентиляторы создают жужжание, которое легко сравниться с жужжанием стандартного пылесоса. Просмотр телевизора рядом со шлюзом фактически невозможен – но как упомянуто ранее, шлюз должен быть расположен в выделенном сервере, так или иначе, где вентиляторы могут, продолжать «беззаботное» жужжание. Изготовитель отправляет эту систему с полным набором прикладного вспомогательного крепежа так, чтобы корпус мог быть вписан в



■ Диаграмма сети IPTV (англ. Internet Protocol Television) - цифрового интерактивного телевидения в сетях передачи данных по протоколу IP.

любую стандартную 19-дюймовую стойку/шкаф или корпус сервера. Руководство, которое одновременно прибывает со шлюзом, имеет очень дружелюбный дизайн и должно ответить на любой вопрос, который мог бы когда-либо возникнуть. Перед тем как обратиться к шлюзу в первый раз, должны быть установлены сетевые подключения.

На этом конце один из шести доступных сетевых интерфейсов подключен также непосредственно к ПК или к маршрутизатору, и назначен IP адрес. Эта лицевая панель содержит пять кнопок, для проведения здесь манипуляций, так же как ЖК-дисплей. Теоретически Вы можете установить IP адрес для всех трех связанных сетей с помощью интерфейса непосредственно на модуле; для пользы и простоты мы действительно рекомендуем начать с одного порта и настроить

все остальные пять через интерфейс сети, поскольку это становится доступным, как только первый порт сконфигурирован. Таким способом все параметры настройки могут, быть выбраны в сети через браузер ПК. Как только первый IP адрес присвоен для шлюза, все, в чём Вы нуждаетесь, - во вводе этого адреса в адресную строку Вашего браузера для обращения к встроенной сети сервера. Вы должны ввести правильное имя пользователя и пароль, который установлен в стандартные значения по умолчанию.

Мы настойчиво рекомендуем установить индивидуальное имя пользователя и пароль, чтобы удостовериться, что шлюз защищен от несанкционированного доступа. Интерфейс сети чрезвычайно удобный и напоминает MS Windows™ – так как это знакомо всем больше всего.

В «Главном меню» пять пунктов (Файлы, IPTV, Администрирование Системы, Система, Конфигурация и Состояние Системы), с конфигурацией и схемой администрирования требующей, конечно же, наибольшего внимания. С помощью этого интегрированного интерфейса сети можно управлять всеми шестью сетевыми портами отдельно, и использование данных для каждого из портов может быть также восстановлено.

В случае если Вы задаётесь вопросом, почему доступно в общей сложности шесть Ethernet портов ((эзернет, от лат. aether – эфир) – пакетной технологии передачи данных преимущественно в локальных компьютерных сетях), если можно обойтись одним то, ответ весьма прост: с несколькими портами Ethernet имеется возможность распространить каналы на различном уровне, это означает, что



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новлены и сконфигурированы индивидуально.

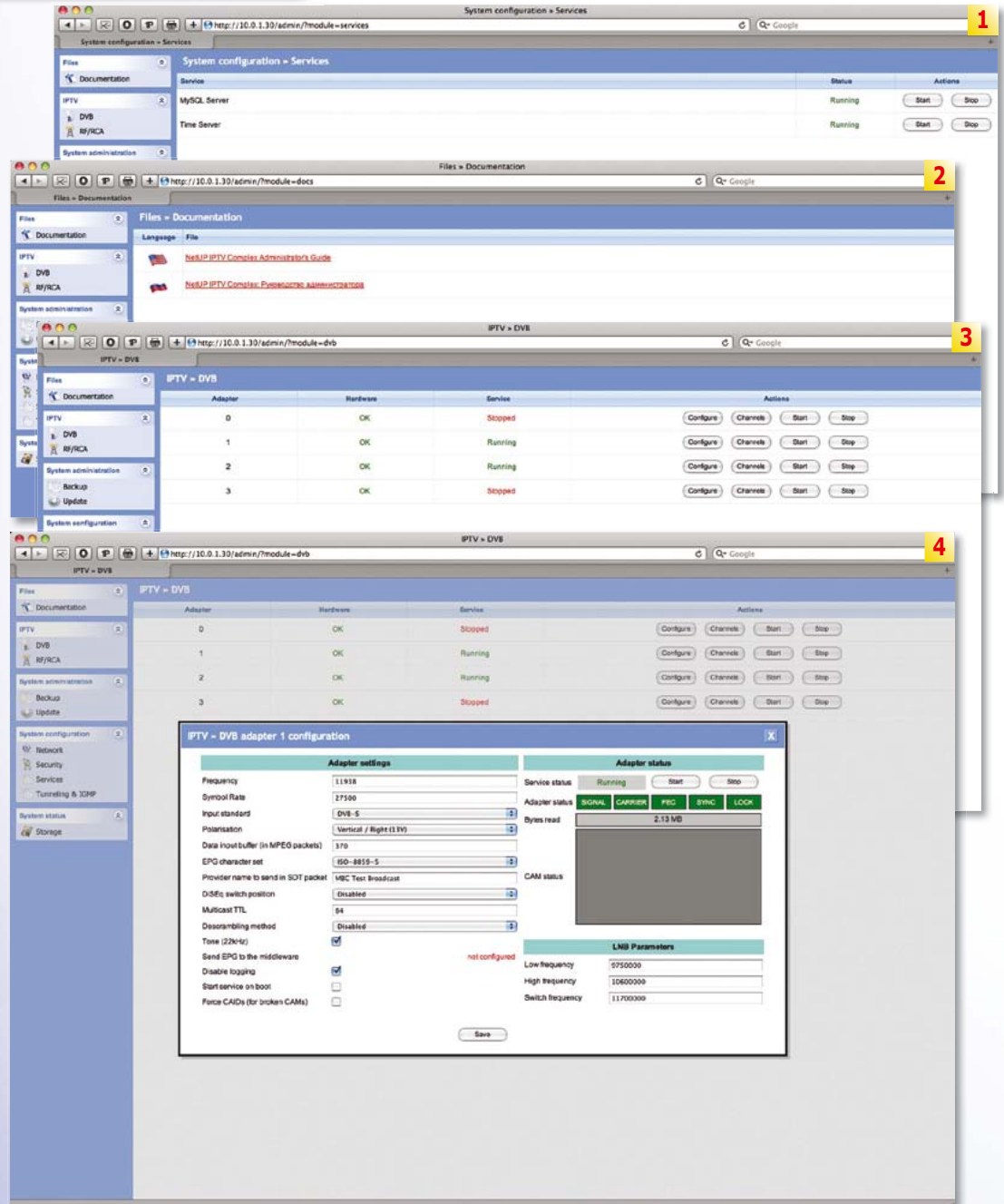
Особенно нам приглянулись - назначаемые индивидуальные параметры локальных осцилляторов частоты (LOF) для каждого блока настройки, также как определение простой конфигурации DiSEqC 1.0 и активация сигнала на 22 кГц. В дополнение, Вам нужна ключевая частота необходимого транспондера, используемая норма символа и поля-

на задаваемых параметрах, появятся пять зеленых блоков (для сигнала, несущей, прямого исправления ошибок, синхронизации и блокировки). Если есть проблемы при приеме, один или более блоков окрашены красными, давая индикацию относительно, сути проблемы. Затем наступает черед выбора канала. Как только блок настройки имеет идентифицированный и захваченный сигнал, специ-

один уровень мог бы поставлять каналы, которые не доступны на другом уровне распределения. Таким образом, возможно, создать до шести различных пакетов каналов, которые будут все приняты и обработаны этим же самым шлюзом, но могут быть составлены из совершенно различных каналов, которые могут быть распространяемы, выставлены на продажу или проданы индивидуально. Кроме того, каждому сетевому адаптеру может быть назначен уникальный IP адрес так, чтобы несколько уровней были доступны в пределах той же самой архитектуры сети.

Наконец, существует также вопрос о полосе пропускания так, как высококачественное информационное наполнение может запросить распределение больше чем на одно подключение. Наше испытательное устройство шло в спецификации DVB-S2, однако, NetUP DVB-IP Gateway 4x также будет в состоянии принять DVB-T, DVB-C и аналоговые сигналы, с взаимозаменяемыми модулями приёма подобными компонентам аппаратных средств Plug&Play. Изготовитель в настоящее время лихорадочно работает над воплощением в жизнь этой функциональной особенности, потому что прямо сейчас имеется только четыре блока настройки DVB-S2, этими средствами мы были в состоянии принимать, обрабатывать и распространять спутниковые сигналы.

В зависимости от клиента, то, что могло бы быть ожидаемым от приёмников для использования дома - подобно автоматическому поиску, обширным опциям DiSEqC, слепому поиску и другие технические изыски - не доступны, так, как это профессиональное оборудование, и оно сосредотачи-



вается на совершенно иных областях видимого применения. С NetUP DVB-IP Gateway 4x имеется доступ к элитным блокам настройки. Каждый из четырех DVB-S2 блоков настройки могут быть уста-

ризация - чтобы завершить настройку подачи напряжения от источника питания для маломощного приемного блока (LNB). Как только шлюз обнаружил активный транспондер, основанный

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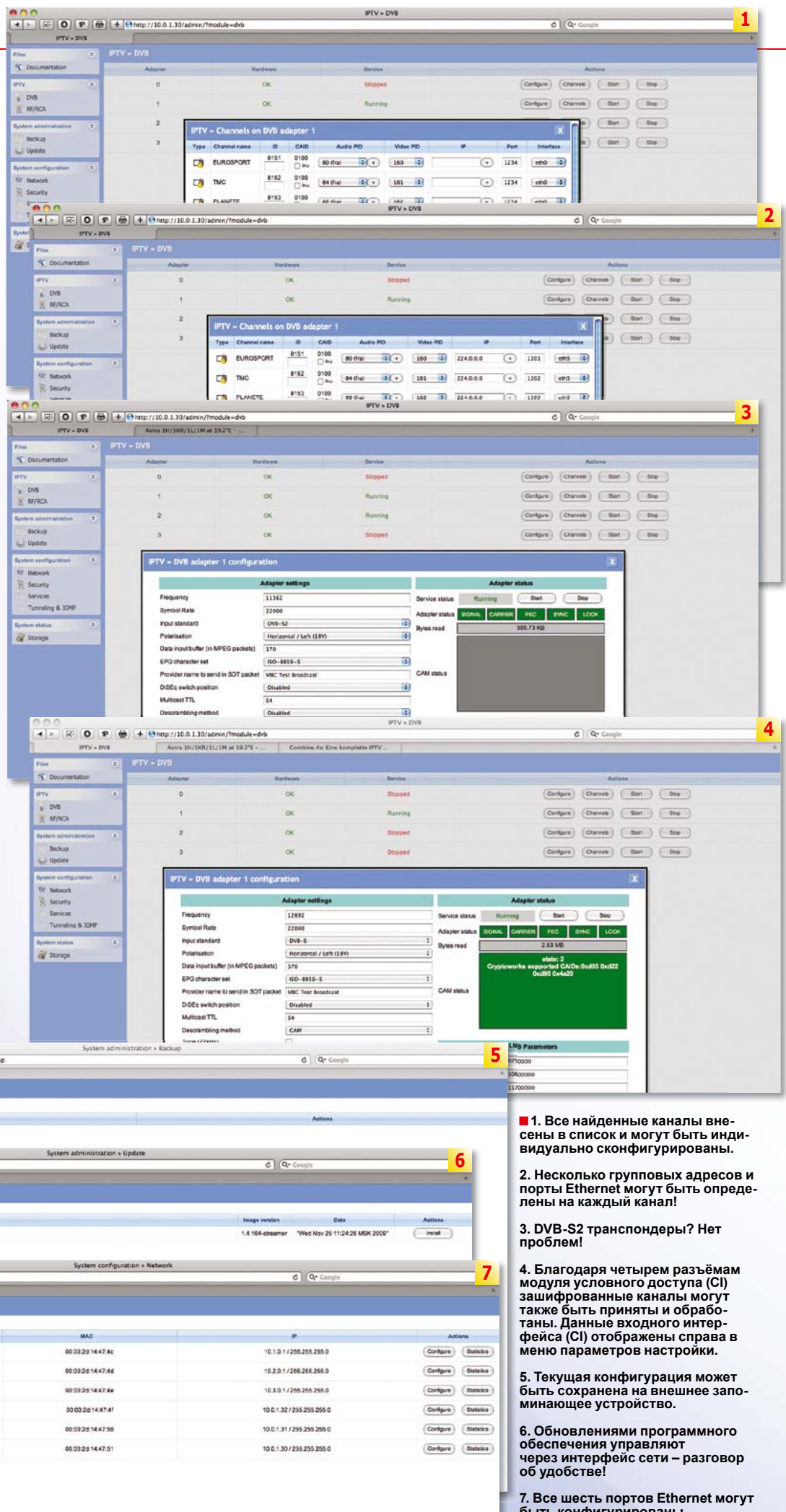
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becky@svec.com



ализированный пункт меню используется, чтобы отобразить законченное информационное наполнение транспондера. Каждый обнаруженный канал (независимо от того, телевидение это или радио), показан со всеми его техническими спецификациями (идентификатор аудио и видео). Если присутствует более, чем один индивидуальный идентификатор (в случае множества дорожек звукового канала, например) Вы можете определить, какой идентификатор должен быть распространяем. Это необходимо, чтобы назначить групповой IP адрес, порт и один из шести Ethernet интерфейсов к каждому выбранному каналу.

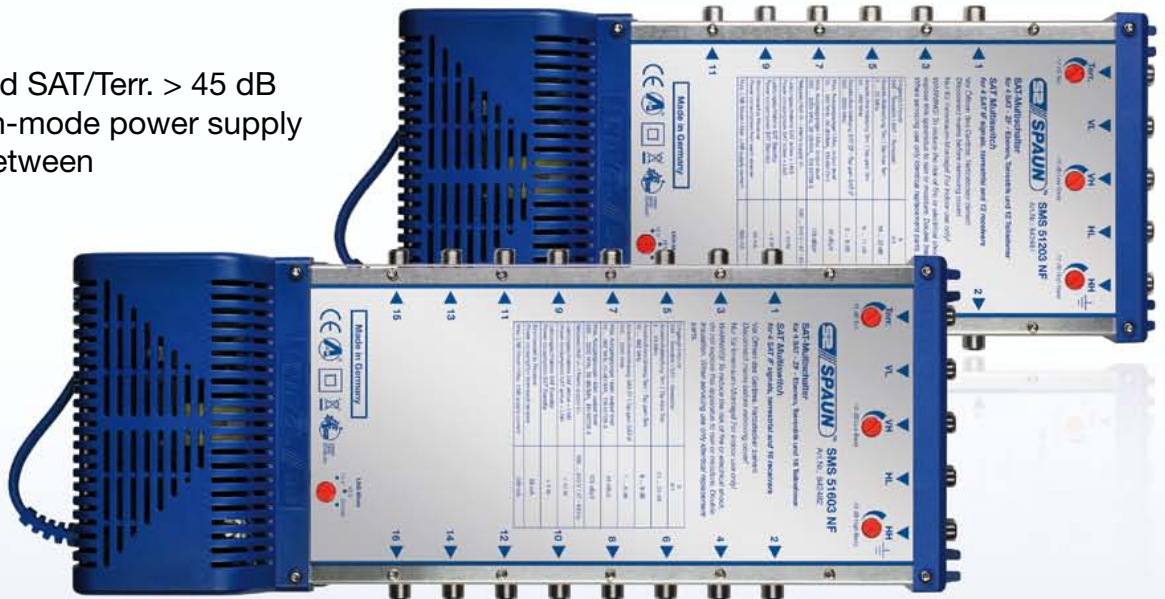
Также весьма возможно то, что канал может быть назначен больше чем на один Ethernet интерфейс, группу передачи или порт, чтобы распространять его на нескольких уровнях. Само собой разумеется, что шлюз DVB-IP NetUP 4x в состоянии обработать данные Электронного программного гида (EPG) из полученных каналов, который перенаправляется связующему программному обеспечению (middleware) для дальнейшей обработки. Такой путь предусматривается для клиентских приёмников цифрового интерактивного телевидения в сетях передачи данных по протоколу IP. В нашей испытательной установке мы выбрали для трансляции через шлюз сигналы от четырёх различных спутников. А



1. Все найденные каналы внесены в список и могут быть индивидуально сконфигурированы.
2. Несколько групповых адресов и порты Ethernet могут быть определены на каждый канал!
3. DVB-S2 транспондеры? Нет проблем!
4. Благодаря четырем разъёмов модуля условного доступа (CI) зашифрованные каналы могут также быть приняты и обработаны. Данные входного интерфейса (CI) отображены справа в меню параметров настройки.
5. Текущая конфигурация может быть сохранена на внешнее запоминающее устройство.
6. Обновлениями программного обеспечения управляются через интерфейс сети – разговор об удобстве!
7. Все шесть портов Ethernet могут быть сконфигурированы индивидуально.

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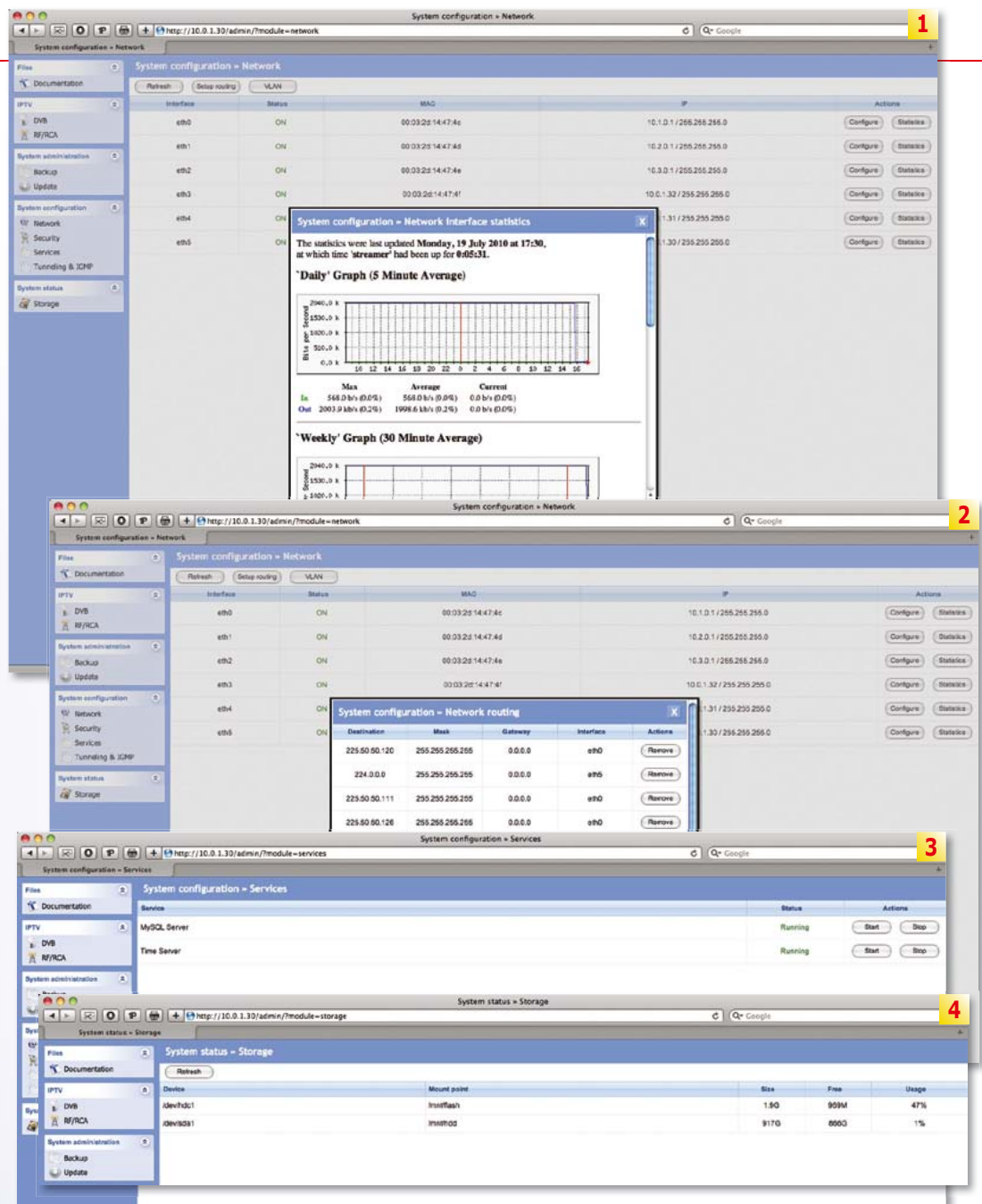
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- Integrated Multidecryption CA-Module
- Return path measurement
- Constellationdiagram for all DVB standards



именно, сигналы исходили от следующих транспондеров: Би-би-си на ASTRA 28.8°в.д., MBC на NILESAT 7°з.д., ORF на ASTRA 19.2°в.д. и четвертый транспондер на TURKSAT 42°в.д. Настраивая блоки настройки на предельно слабый сигнал со спутника ABS1 75°в.д. – оказалось, что все четыре из них были в состоянии произвести безупречное аудио и видео. Мы просто не могли запрашивать больше!

В целом мы достигли бросающихся в глаза 32-х телевизионных каналов, которые были связаны в групповую трансляцию, используя IP адрес 224.200.200.201. Мы также могли назначить порт, например, 1234 и распространять индивидуальное использование каналов отдельных IP адресов, таких как 224.200.200.202, 224.200.200.203 и так далее. Наш приём каналов заканчивался использованием AzBox™ ULTRA HD (см. тестовый отчет в предыдущем выпуске ТЕЛЕ-спутник 08-09/2010), который в настоящее время является одним из только очень немногих приёмников способных к обработке IPTV совместно с DVB-S2.

Настройка AzBox для того, чтобы принимать каналы нашей абсолютно приватной сети цифрового интерактивного телевидения в сетях передачи данных по протоколу IP была легкой, и скоро мы были в состоянии перемещаться вниз по списку из 32 каналов. Конечно, нет никакого смысла в установке такого IPTV для единственного клиентского приёмника, поэтому мы расширили нашу клиентскую базу, подключив различные ПК в нашем редакционном офисе для IPTV доступа. Программное обеспечение проигрывателя VLC™ (доступно на www.videolan.org для различных операционных систем), оказалось удобным решением для приема IPTV на ПК, и независимо от того, как интенсивно мы испытывали, у нас не было никакой возможности когда-либо и каким-либо способом заставить шлюз колебаться. На самом деле, не было даже малейшего отклонения. Это означало что, мы должны были избрести испытание, которое дало бы шлюзу самую трудно вообразимую встряску. Как насчёт пере-



дачи Британского телевидения коллеге в Таиланд, через цифровое интерактивное телевидение в сетях передачи данных по протоколу IP? Мы вернулись на место и запустили VPN подключения использованием двух VPN маршрутизаторов Netgear™ на каждом конце кабеля, перед включением IPTV шлюза.

Потребовалось только несколько секунд, чтобы известить нас нашим коллегой, вошедшим в контакт с нами через Skype™, что попытка была успешной, и всё было отображено перед нашим коллегой. Для кого-то это может оказаться важно, мы действительно должны упомянуть на этом этапе, что мы в нашем офисе имеем очень быстрый доступ в Интернет, который предлагает скорость передачи сверх 20 MBit/s. Какое либо

меньшее значение было бы не достаточным для информационного наполнения с высоким разрешением. В любом случае, наш тайский приятель был ошеломлён качеством аудио, и видео также как сражён на повал скоростью IPTV пакетов которые мы послали ему. Благодаря поддержке DVB-S2 шлюз не только способен к получению и распространению телевидения со стандартной чёткостью, но также и телевидения с высоким разрешением (HDTV/TBB4) MPEG4/H.264. Мы не обнаружили никаких ошибок, при воспроизведении обратного информационного наполнения телевидения с высоким разрешением (HDTV/TBB4) посредством цифрового интерактивного телевидения в сетях передачи данных по протоколу IP. Кроме того, шлюз автома-

■ 1. Точные статистические данные собраны для каждого порта Ethernet.

2. Сетевая маршрутизация.

3. Сервер MySQL, также как и сервер времени также доступны.

4. Много видео по требованию (VOD) может быть сохранено на встроенном жестком диске в 1 ТБ.

тически обнаруживает и корректирует технические параметры, такие как модуляция и ошибочное исправление ошибок, что является особенностью, за которую мы можем, похвалить чрезвычайно высоко.

Полное безупречное впечатление от DVB-IP шлюза NetUP дополняется дальнейшим дополнительным количеством опций маршрутизации, интегрированным жестким диском на 1ТБ, так же как хорошей, очень дружелюбной особенностью обновления программного обеспече-



Enjoy Life With Heart



HD DVB-T H.264 HDD PVR

- MPEG2/4, H.264 HD/SD decoding (MP@HL/ML)
- Built-in HDD up to 1000GB, Twin tuner PVR
- Digital album or slide show through USB2.0
- HDMI with HDCP digital video output
- Low power consumption



HD DVB-S/S2 H.264 CA

- Fully DVB-S and DVB-S2 compliant
- MPEG2/4, H.264 HD/SD decoding (MP@HL/ML)
- CAS support such as Irdeto, Conax...
- Usb PVR ready, timeshifting, Live channel Pause
- Low power consumption



HD DVB-C H.264 CA

- MPEG2/4, H.264 HD/SD decoding (MP@HL/ML) supported
- CAS support such as Irdeto, Conax, NovelSuperTV, Sumavision
- HDMI with HDCP digital video output
- Dynamic HI-FI Stereo Sound System
- Digital album or slide show through USB2.0



SD DVB-S/S2 H.264 CA

- Fully DVB-S and DVB-S2 compliant
- MPEG2/4, H.264 decoding (MP@HL/ML)
- CAS support such as Irdeto, Conax...
- Electronic Program Guide(EPG)
- USB: PVR, photo viewing, mp3 file playing



SD DVB-C/S/T H.264 CA (Chipset-pairing)

- DVB-C or DVB-S/S2 or DVB-T
- MPEG2/4, H.264 decoding (MP@HL/ML)
- Support IRDETO, CONAX CA Chipset-pairing
- Supported Multi-language OSD supported
- USB: PVR, photo viewing, mp3 file playing



SD DVB-S 2tuner USB PVR

- Two DVB-S Tuner
- Record current channel and another channel while watching current channel
- Support Timeshift function & PIP function
- Multi-language OSD supported
- Electronic program guide (EPG)



SD DVB-T H.264 CA USB

- Fully DVB-T/MPEG-2/MPEG4 H.264 Compliant System
- Multi-language OSD and user friendly user interface
- Logical Channel Number(LCN)
- Subtitle, teletext function supported
- USB: PVR, photo viewing, mp3 file playing



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ния. Все, что потребуется, нужно оснастить последним встроенным программным обеспечением, загружаемым с вебсайта изготовителя и затем перемещаемым в NetUP DVB-IP Gateway 4x через сеть, используя FTP. Оно немедленно появляется в обновлённом меню, подтверждается точным номером версии, и может быть загружено и установлено простым щелчком. Все шесть портов Ethernet на 10/100/1000 Mbit совместимы с локальной сетью, что означает их поддержку текущего максимума - технически это выполнимо. Шлюз непосредственно способен к одновременной обработке до четырех транспондеров с полной полосой пропускания до 240 МБ/Сек.

С его размерами 430x44x411 мм. он точно соответствует стандартным 19-ти дюймовым стойкам или корпусу сервера, также как и чудовищным весом - 11.5 кг (главным образом благодаря его высококачественному блоку питания). Как можно было бы, и ожидать от профессиональной аппаратуры, шлюз автоматически перезагружается после сбоя питания и возвращается к действующему режиму, который использовался последним. Напряжения от 90 до 240В переменного тока от 47 до 63 Гц может быть обработано блоком питания, который позволяет глобальное использование шлюза. В запущенном рабочем состоянии IP шлюз цифрового телевидения NetUP 4x потребляет приблизительно 100 Ватт мощности. В то время как шлюз цифрового телевидения IP NetUP 4x является одним компонентом из многих, тех которые и составляют абсолютную сеть цифрового интерактивного телевидения в сетях передачи данных по протоколу IP, он может, конечно

же, также использоваться ради самого себя, именно так как мы сделали в нашей испытательной установке. Он должен обрабатывать и преобразовывать сигнал цифрового телевидения в совместимый формат IPTV и таким образом используется как интерфейс между входным сигналом цифрового телевидения и IPTV сетями передачи данных по протоколу IP. Клиентские приёмники, на другой стороне, просто переключаются между каналами и пакетами, используя различные IP адреса и порты.

С таким подразумеваемым подходом шлюз мог бы функционировать как удобная опорная сеть для того, чтобы предоставить сигналы нескольким мониторам в пределах строения, и - естественно - для того, чтобы распространить спутниковые, кабельные или наземные сигналы через сеть или Интернет. Говоря об этом, все же еще неизвестно удастся ли нам найти решение по разъединению нашего шлюза для испытания так, как наш тайский коллега, кажется, в действительности между тем стал ярким поклонником Би-би-си (BBC).

Он скептически был настроен против нас до окончания этого теста, потому что, так или иначе он не может принимать каналы Би-би-си в какой-либо момент из-за пределов Таиланда. В большинстве случаев, однако, IP шлюз цифрового телевидения будет использоваться как интегральный компонент в намного более мудрёной IPTV сети. В завершение этого, шлюз объединен со связующим программным обеспечением (ПО) (middleware), которое создает для поставщика программной услуги определенный графический символ отображаемой экранной

графики (OSD) и представляет каналы, обрабатываемые шлюзом в удобном для работы и визуальном приятном дизайне. Операторы могут даже добавить VOD (видео по требованию), биллинг или другие определенные заказчиком функции, которые сделают такую IPTV сеть совершенной системой для гостиницы, больницы, апартаментов здания или подобных сфер использования. Мы должны добавить на этом этапе, что NetUP не только предлагает свой шлюз как дискретный компонент, но также и как завершённую систему цифрового интерактивного телевидения в сетях передачи данных по протоколу IP посредством решений под ключ. По сути, он может содержать передачу связующего ПО (middleware) и видео по запросу (VOD), помимо базового шлюза сети.

Combine IP 4x (англ. Internet Protocol Television) - комбинированное цифровое интерактивное телевидение в сетях передачи данных по протоколу IP, одна из таких систем, и здесь снова мы можем с уверенностью сказать, что завод - изготовитель не предлагает нерешительных решений: и IP шлюз цифрового телевидения 4x и Combine 4x IP со

встроенным связующим ПО (middleware) основаны точно на тех же самых аппаратных средствах. Так, если клиент уже эксплуатирует IP шлюз цифрового телевидения версии 4x и имеется потребность модернизировать его систему под IPTV, то такое устройство со встроенным связующим ПО (middleware) и видео по запросу (VOD), ему только потребуются приобрести расширенное программное обеспечение, которое волшебным образом разблокирует все функции Combine 4x, без необходимости изменять компоненты одиночных аппаратных средств. Эта опция усовершенствования также одна из причин, почему каждый шлюз DVB-IP 4x оснащается огромным жестким диском на 1ТБ. Такая его способность будет востребована только тогда, когда однажды шлюз превратился в IPTV Combine 4x устройство с видео по запросу (VOD), когда жесткий диск заполнен информационным наполнением для пользователей, чтобы просматривать его каждый раз, когда у них возникнет необходимость в этом.

Мы полагаем, что Вы можете поверить, на основе прочитанного Вами в настоящее время, что мы были под неизгладимым впечатлением от шлюза DVB-IP 4x во время



Список AzBox HD Ultra, состоящий из обоих DVB-S и IPTV каналов.



нашего испытания. Необыкновенное качество сборки и совершенная простота использования среди его ключевых характеристик. Тем временем у Вас всегда имеется под рукой исчерпывающее и хорошо написанное руководство, вероятно даже то, что будет возможным, устанавливать и запускать систему и без него.

Естественно, технические детали и полезные подсказки могут быть найдены только в письменной документации. NetUP использует очень низкороговые устройства тонкой подстройки, которые обеспечивают устойчи-

вый сигнал даже при совсем не совершенных условиях приёма. Благодаря, шести выходным портам Ethernet сигнал может быть свободно сконфигурирован и распространён на различном уровне. Дополнительно обращает на себя внимание спрятанная удобная функция обновления, которая может легко превращать шлюз IPTV в комбинированное устройство (Combine 4x IPTV) цифрового интерактивного телевидения в сетях передачи данных со встроенным связующим ПО (middleware) и видео по запросу (VOD).

Глоссарий:

DVB-IP Шлюз

Преобразовывает сигналы цифрового телевидения, принятые через спутник, кабель или антенну так, чтобы они могли обеспечивать сеть цифрового интерактивного телевидения в сетях передачи данных по протоколу IP.

Связующее ПО (MIDDLEWARE)

Заботится о показе информационного наполнения визуально приятным способом.

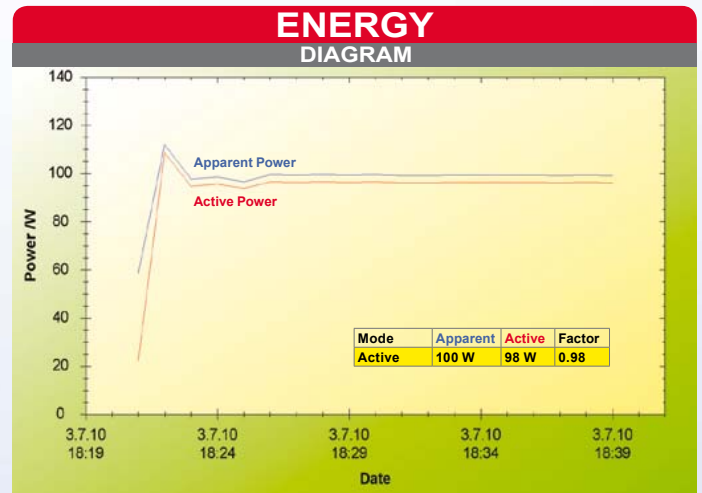
Создает экранные меню для приёмников цифрового интерактивного телевидения в сетях передачи данных по протоколу IP и таким образом обеспечивает графический интерфейс для пользователей аппаратуры.

ВИДЕО ПО ЗАПРОСУ (VOD)

Предоставляет стационарный доступ к сохраненному информационному мультимедийному наполнению. Пользователи, имеющие право доступа, могут запустить, приостановить и полностью отключить магнитофон в любое время, не будучи ограниченными запланированными временными рамками.



MBC4 через цифровое интерактивное телевидение в сетях передачи данных по протоколу IP на AzBox Высокой чёткости (HD)



Заключение Эксперта

+

Превосходное качество сборки. Удобный низко пороговый блок настройки. Универсальные сетевые опции. ТВ со стандартной чёткостью и прием телевидения с высоким разрешением (HDTV/TBBЧ). Совместимость с DVB-S2. Опция обновления до Combine IPTV (англ. Combine Internet Protocol Television) – комбинированного цифрового интерактивного телевидения в сетях передачи данных по протоколу IP стандарта 4x.



Thomas Haring
TELE-satellite
Test Center
Austria

-

Шум вентилятора.

TECHNICAL

DATA

Manufacturer	NetUP, Olof Palme Street 1, Floor 7 resp. Postbox 87, 119311 Moscow, Russia
Fax	+7 499 143 5521
E-Mail	info@netup.tv
Model	DVB-IP Gateway 4x
Function	IPTV Gateway for DVB Signals
Tuners	4
Max. simultaneous Transponders	4
Max. bandwidth	240 MB/s
DiSEQC	1.0
Ethernet ports	6 x Gigabit Ethernet 10/100/1000 MB/s
CI Slots	4
USB Connector	yes (2)
RS232	yes
Dimensions	430x44x411mm
Power	90 ~ 264 Volt, 47 ~ 63 Hz
Weight	11.5kg
Consumption	~ 100W





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вверх

Те, кто живет в малых и средних широтах, имеют тенденцию задумываться о том, что офсетные антенны всегда имеют несущую поддержку малошумящего приёмного блока (LNB) снизу отражателя. Но так ли необходимо устанавливать антенну именно таким образом? Как на счёт того чтобы расположить кронштейн сверху антенны? Конечно же, нет никакого закона, запрещающего этого, но по практическим причинам, это главным образом имеет смысл для сравнительно низкоорбитальных спутников, с углом возвышения ниже 30°. Эта практическая причина удерживает отражатель настолько вертикальным насколько возможно, чтобы предотвратить скопление дождя, снега и грязи в антенне.

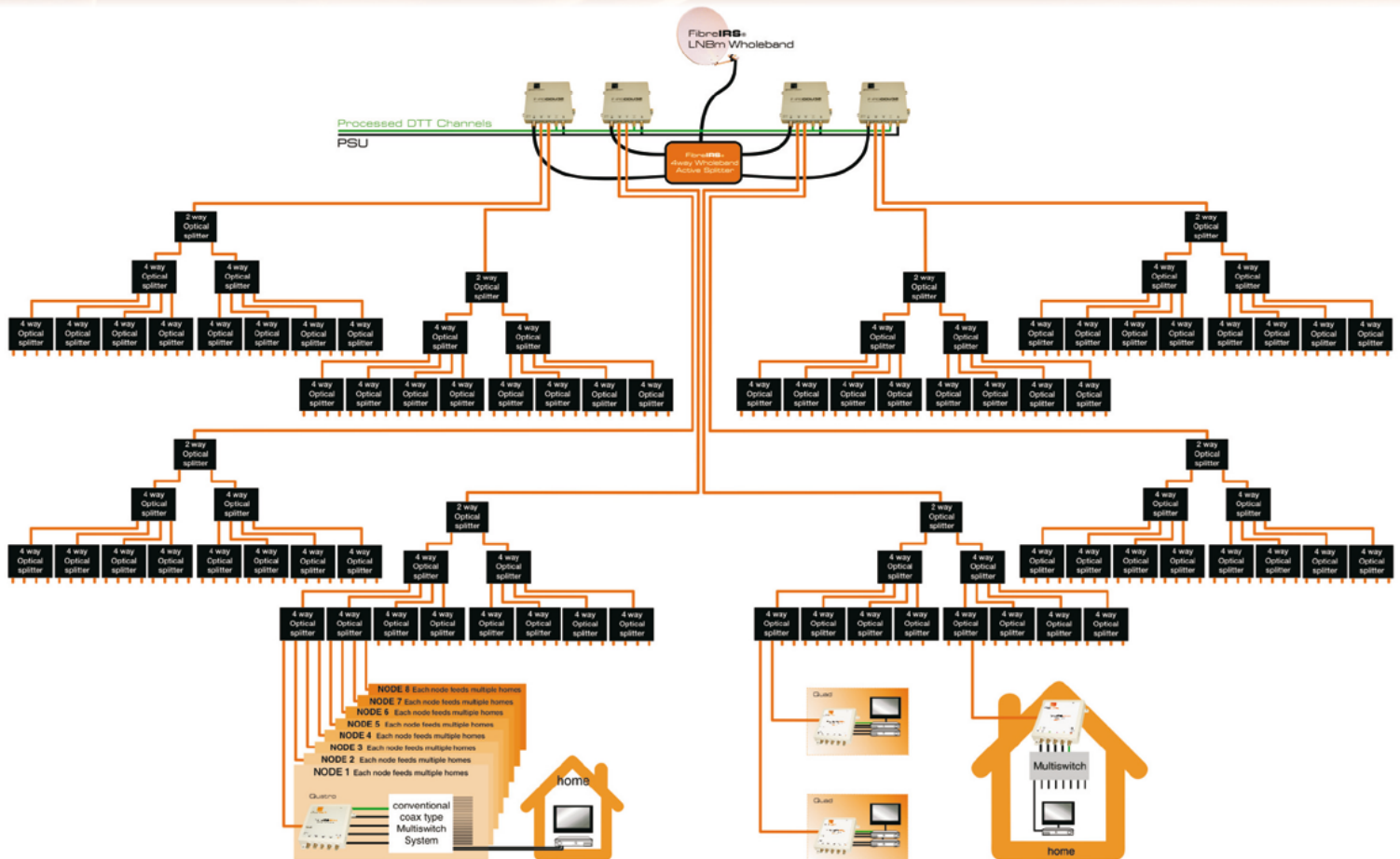
■ Антенна SVEC™ установленная „вверх тормашками“: может быть установленной наоборот. Это предлагается для местностей расположенных ближе к полюсам, поэтому это пригодно для областей, где возвышение желательных спутников колеблется в диапазоне от 0 до 40°. Иное же использование применимо при определенных обстоятельствах, т.е. на переполненном балконе, расположение держателя отражателя, сверху могло бы быть решением, если держатель отражателя, установленный снизу, не соответствовал бы возможностям монтажа.

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*Compared with existing Fibre Systems



Офсетная антенна получает спутниковые сигналы приходящими не перпендикулярно поверхности отражателя, а под углом приблизительно 25°. Таким образом, чтобы принять спутник с углом возвышения в 25°, отражатель помещен вертикально. Если угол возвышения ниже, отражатель должен быть наклонен к земле, что может выглядеть похожим на то, как, будто кое-что неправильно с нашей антенной. Почему не перевернуть её вверх дном, и поместить держатель конвертора сверху отражателя? Верно! Именно это, сделано компанией SVEC™ с их офсетной антенной SK60-PWT19 на 60 см. для Ku-диапазона! Компания SVEC™ отправила для нас аккуратно упакованную картонную коробку с двумя наборами SK60-PWT19. Все было в отличном состоянии. Мы были счастливы заметить, что эта антенна прибывает с монтажными чертежами и ведомостью материалов, что очень полезно при сборочном процессе. Каждая часть комплекта была очень хорошо изготовлена и соответствовала всем остальным частям, без каких либо проблем.

Сборка была просто развлечением. Если Вы уже имеете вертикальную мачту, чтобы навесить антенну, всё, что Вы должны использовать, является 10-миллиметровым гаечным ключом и отверткой от Phillips™. Вследствие того, что регуляторы и азимута, и угла возвышения каждый зависят от двух винтов, она действительно легко вращается и наклоняется плавно. Антенна SK60-PWT19 не будет смещаться вниз мачты, даже если Вы сверх меры освободите 2-ва винта кронштейна на мачте. Имеется другой длинный винт, пересекающий вершинную часть скобы мачты, поэтому антенна обопрется на винт. Этот винт - ось регулирования угла возвышения.

В некоторых случаях, это

■ Испытательный редактор журнала TELE-спутник Яцек Павловски (Jacek Pawlowski) выполняет замеры работоспособности 60 см офсетной зеркальной антенны SK60-PWT19 от SVEC™.





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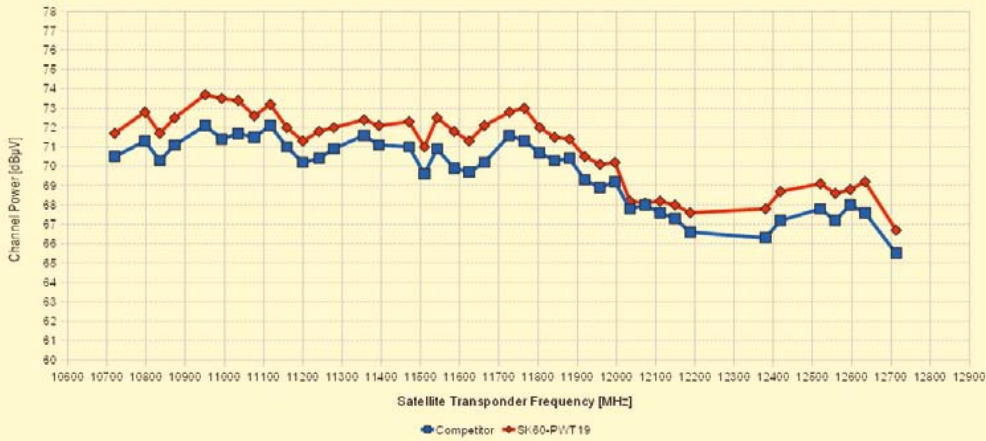
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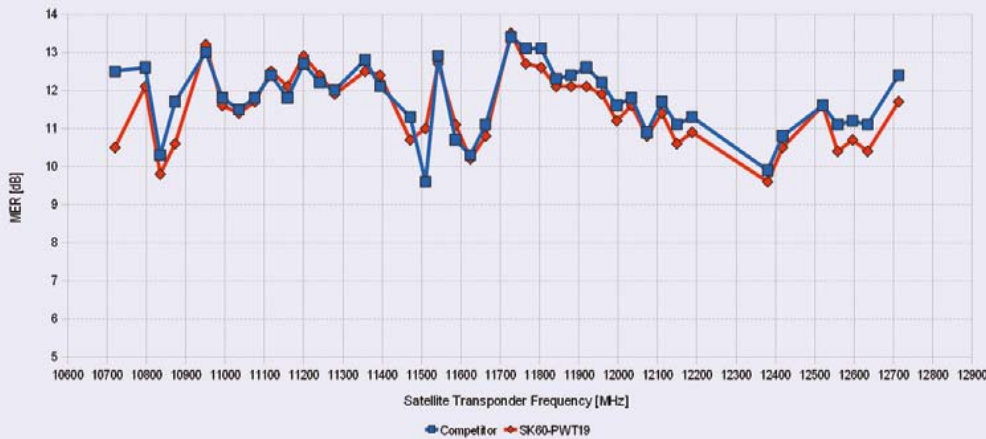
SK60-PWT19 Compared with a Competitor Product

Hotbird 13E Vertical Polarization



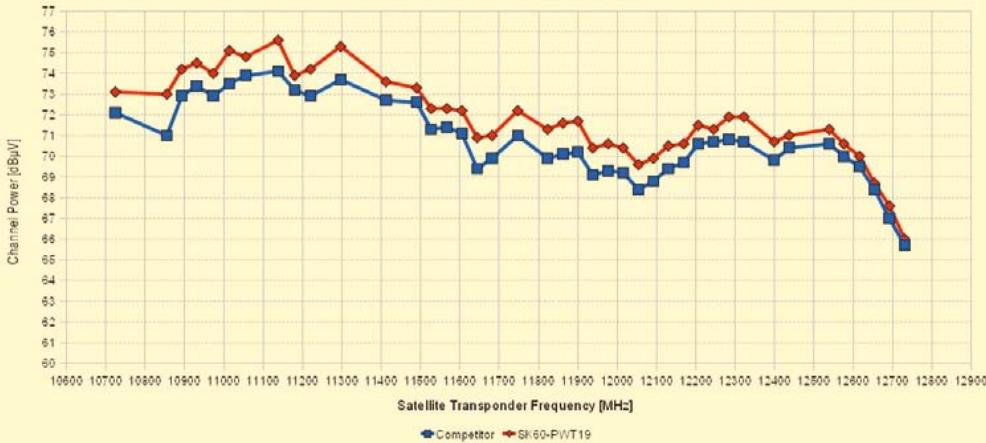
SK60-PWT19 Compared with a Competitor Product

Hotbird 13E Vertical Polarization



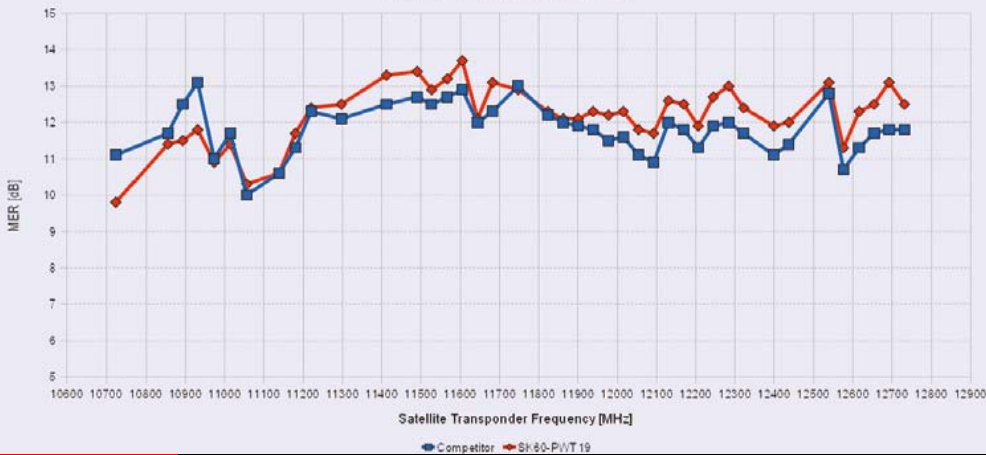
SK60-PWT19 Compared with a Competitor Product

Hotbird 13E Horizontal Polarization



SK60-PWT19 Compared with a Competitor Product

Hotbird 13E Horizontal Polarization



могло бы быть недостатком, потому что зеркальная антенна должна находиться на вершине мачты. По этому если Вы планируете использовать эту же мачту и для спутниковой антенны и для наземной антенны, Вы должны учесть это. Обычно, спутниковая антенна установлена ниже, а наземная антенна Яги выше, чтобы минимизировать влияние ветра на опору. Сборочные чертежи, сопровождающие, зеркальную антенну показывали два способа монтажа: обычный способ с малошумящим приемным блоком (LNB) установленным ниже отражателя (диапазон угла возвышения 30-90°) и полностью противоположный способ с установкой отражателя сверху (диапазон угла возвышения 0-40°). Вы можете видеть оба варианта на фото. Установка "Верх вниз" выглядит немного фантастично, но всё работает хорошо, предполагая, что Ваш спутник находится в диапазоне угла возвышения 0-40°. Всё же более разумно использовать традиционный способ для спутников между 30-40°, потому что отражатель располагается максимально вертикально – таким образом, снижая риск накопления осадков, помех при прямой видимости или накопления пыли.

Однако если Вам нравится вызывать любопытство среди Ваших соседей, перевернутая установка может быть Вашим выбором. SVEC™ дает Вам больше чем готовую зеркальную антенну. Имеется дополнительная укороченная мачта, которую Вы можете использовать при монтаже крепления или к стене, или на крыше. Интересная особенность: это не должны быть вертикальные или горизонтальные поверхности. У Вас имеется в наличии плавная регулировка от 0 до 90°, так что Вы сможете использовать что-либо достаточно твердое, чтобы установить основание антенны. В нашем тесте мы использовали одну из наших существующих вертикальных опор.

Сначала мы измерили конкурирующую этой антенне офсетную антенну на 60 см, после чего насадили SK60-

Signal measuring for DVB-S2, DVB-S, DSS

Digital Satellite Analyzer HD 1680S2

SPECTRUM ANALYZER with ROTATOR CONTROL

Convenient & quick searching by Project name setting

I/Q Constellation Diagram (HD Level 8PSK)

Pre-BER, Post-BER, SNR & MER measurement

Blind scan for DVB-S, DVB-S2, DSS & TP list

Easy upload & download new satellite file list

Data Logger with USB port

Spectrum Analyzer

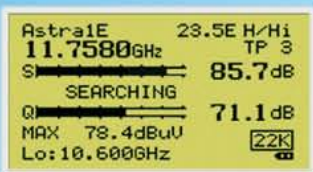
Accurate level measurement

Peak level detection : CODE, LEVEL, OFF

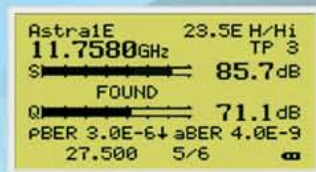
DiSEqC 1.0/1.1/1.2(Rotator) supporting

Easy portable & lightweight type

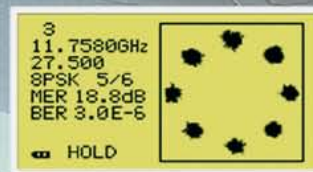
Li-Poly Battery (7.4V 3800mA)



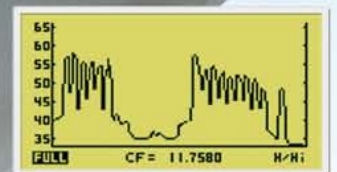
Satellite signal measurement
(Analog / Digital)



MER(SNR), BER measurement
(Analog / Digital)



I/Q Constellation Diagram
(QPSK / 8PSK)



Spectrum analyzer
(with Rotator control)

PWT19 на мачту. Графики повествуют целую историю. Зеркальная антенна SVEC™ изготовлена действительно очень хорошо. Нам удалось достичь более сильного сигнала примерно

на 1 dBμV притом же самом качестве сигнала, что и у конкурирующего продукта. Наше заключение – с геометрией этой зеркальной антенны SVEC™ все превосходно.

Заключение Эксперта

+

Очень хорошее качество изготовления. Широкий диапазон угла возвышения: 0~90°. Плавное и легкое регулирование угла возвышения и азимута. Прочная конструкция. Превосходная геометрия = высокое усиление. В комплекте дополнительная укороченная мачта в виде кронштейна для монтажа на стене или на крыше.



Jacek Pawlowski
TELE-satellite
Test Center
Poland

-

Разработана, чтобы быть установленной на вершине мачты, что немного ограничивает её многосторонность.

TECHNICAL DATA

Manufacturer	Sichuan Video Electronic Co., Ltd.
Web page	www.svec.com.cn
Email	svec@china.com
Fax	+86-028-87838898
Model	SK60-PWT19
Description	Offset Dish for Ku-Band
Dimensions	60 x 66 cm
Offset angle	25.36°
Ku-band Gain @ 12.5GHz	35.3dB
F/D ratio	0.58
Focus length	32.4 cm
Mounting type	Pole and wall mount
Material	Steel
Finish	Polyester powder coating with light gray color
Elevation alignment	0~40° and 30~90°
Resistance to wind	60 m/sec



■ Вот так зеркальная антенна на 60 см SVEC™ прибывает к клиенту: все части могут легко быть собраны.

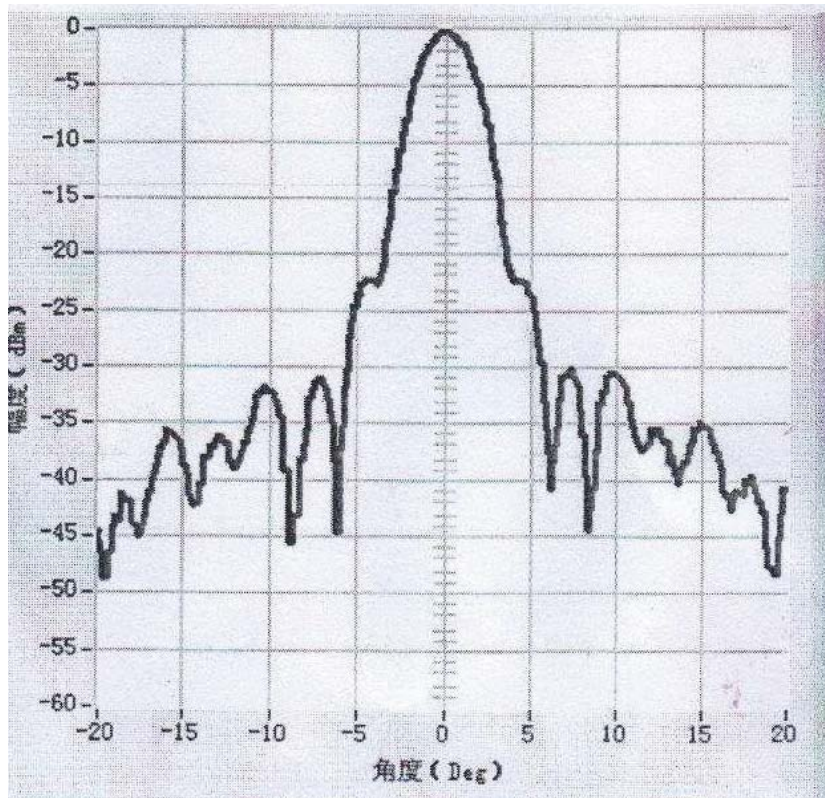
Офсетная антенна SK60-PWT19 от SVEC

Тестирование диаграммы направленности

Тестирование диаграммы направленности в камере микроволнового излучения на частоте 11.0 ГГц при ширине луча: 3.05. График показывает первую сторону лепестка с - 30.0 децибелами. Зеркальная офсетная антенна SVEC™ - действительно модель с высоким усилением.

Акт испытаний воздействия солевого аэрозоля

Это сообщение показывает, что зеркальная поверхность антенны SVEC™ остается невредимой даже после 700 часового (1 месяц) непрерывного воздействия солевого аэрозоля. Это - превосходный результат, позволяющий зеркальным антеннам SVEC™ выделяться на фоне продуктов от конкурентов. Покрытие SVEC™ обеспечивает выдающуюся долговечность этих зеркальных антенн.



National Quality Supervision Testing Center for Paint
Test Report

No. TW10254Y1 Total:1 Page:1

Name of Product	DB032-3JL3(Grey Sandy Texture)		No. of Sample	TW10254
			Trademark	/
Manufacturer	Akzo Nobel Powder Coatings (Chengdu) Co., Ltd.		Entrusting Date	March 4, 2010
			Arriving Date	March 5, 2010
Description Of Sample	The appearance of the 4 test panels on steel plates delivered by the entrusting corporation is grey and flat.			
Basis of Test	HG/T 2006-2006 Thermosetting powder coatings (exterior use, first grade, specular gloss ≤60°)			
Test Method	GB/T 1771-2007 Paints and Varnishes—Determination of resistance to neutral salt spray			
Rating Method	/			
Test Date	March 10, 2010~April 12, 2010			
Test Item	Technical Requirements	Test Results	Item's Conclusion	
Neutral Salt Spray Test	500h: the creepage from the scribe Δ 2.0mm; no abnormal phenomena on the unscribed areas	The followings are the test results of the test panels during 700 hours neutral salt spray test: 24h~168h, the creepage from the scribe is 0.1mm~0.5mm. 192h~288h, the creepage from the scribe is 0.6mm~1.0mm. 312h~600h, the creepage from the scribe is 1.1mm~1.9mm. 624h~700h, the creepage from the scribe is 2.1mm~2.4mm. 24h~700h, there is no change on the unscribed areas of the paint film.	Qualified	
Remarks:				
		Date of Sign and Issue: April 14, 2010		
Approver:		Checker: Tester:		

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- WDE-4220 MPEG-2/4 ENCODER
- WDM-4140 MULTIPLEXER
- WDQ-3204 QAM MODULATOR
- WDE-H2220 HD ENCODER
- WDT-1204 TS RECEIVER
- 4 OUTPUT RETURN OPTICAL RECEIVER
- WR8602JDS ROOM OPTICAL RECEIVER
- OPTICAL SWITCH
- WR8602RJL ROOM OPTICAL RECEIVER
- 1550nm INTERNAL MODULATION OPTICAL TRANSMITTER
- 1550nm EXTERNAL MODULATION OPTICAL TRANSMITTER
- 1310nm EXTERNAL MODULATION OPTICAL TRANSMITTER
- ERBIUM DOPED FIBER AMPLIFIER



CATV OPTICAL FIBER COMMUNICATION SYSTEM PLATFORM.WOS-3000

Horizon HD-S2 Спутниковый измеритель сигналов

Такой же легкий в использовании как его старший брат



HD-S2 - следующий элемент в линейке приборов HD SM USB PLUS - спутниковый измеритель силы сигнала, который ТЕЛЕ-сателлайт представлял в обзоре 10-11/2007. Тогда измерительный прибор не был, совместим с DVB-S2. Теперь, конечно же, он совместим! Но это не единственное усовершенствование, которое Horizon представил в их новом измерительном приборе. Мы обратимся, к новациям позже в обзоре, но сначала мы хотели бы подчеркнуть, что самая важная характеристика этого измерительного прибора - его простота использования, была сохранена. Мы могли повторить заголовки обзора, в котором мы описывали его предшественника: "даже тугодум может использовать его". Это все еще истина!

Как и во всех других измерительных приборах от Horizon, когда HD-S2 доставлен, его внутренний аккумулятор требует зарядки приблизительно 8 часов. Источник питания встроено, таким образом Вы только

нуждаетесь в присоединении силового провода, чтобы заряжать внутренний аккумулятор. Вы можете также использовать автомобильное зарядное устройство постоянного тока, которое приводит к прямому исполь-

зованию при одновременной зарядке. При полной зарядке, он используется больше 8 часов при максимальной нагрузке. Это возможно благодаря современному литиевому полимерному (Li-Po) аккумулятору.

Аккумулятор доступен через заслонку на обратной стороне измерительного прибора, таким образом, имеется возможность, заменить его в будущем или отсоединить его, если Вы предполагаете, что Вы не будете использовать HD-S2 в течение некоторого времени. Лицевая панель содержит два «F» соединителя, ЖК экран с лампой подсветки и четыре коммутационных кнопки. Есть пластиковая оболочка, которая приложена к лицевой панели. Измерительный прибор хорошо защищен от струек дождя, когда используется в боевой обстановке. Соединитель «F» вывода, который вероятно не будет использоваться очень часто, защищен резиновым колпачком. У дождя нет никакого шанса проникнуть внутрь прибора. Другая "полоса обороны" против агрессивной среды нейлоновый кожух для переноски. Он имеет практичный карман с боку и быстрый стартовый справочник на внутренней поверхности козырька. Открывающиеся застёжки на липучке позволяют Вам, подключить кабель без извлечения измерительного прибора из кожуха. Регулируемый



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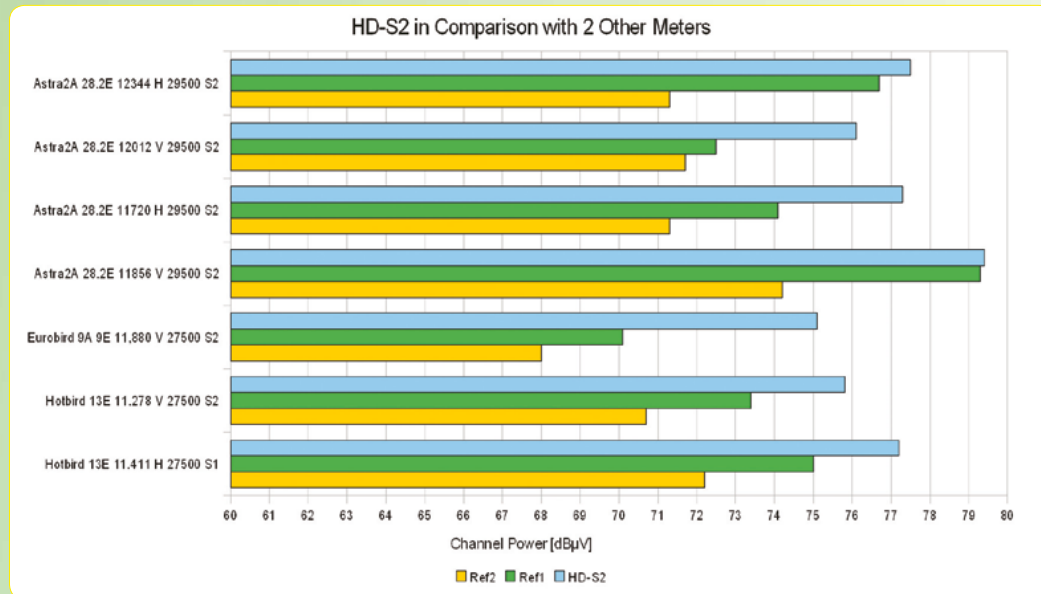
Website:www.boxsam.com Email:OM@boxsam.com

по длине ремешок для шеи позволяет Вам освободить обе Ваши руки, чтобы манипулировать со спутниковым антенным отражателем.

Использование

Если Вы знакомы с любым другим типом измерительных приборов от Horizon – одним из спутниковых, кабельных или неземных, Вы действительно потратите немного времени чтобы разгадать, как работать с их новым

HD-S2. Стрелка "Вверх" направляет Вас к установочному меню и стрелка "Вниз" к обыкновенному использованию. Кнопки Вверх\Вниз используются, чтобы передвигаться по Меню, и Влево/Вправо для выбора опций/значения для данного пункта меню. Есть двенадцать подпунктов в Установочном меню: Подсветка (Вкл\Выкл.), Захват/Удержание (Вкл\Выкл.), Яркость (0... 15), Контраст (0... 50), Бездействие (от 1... до 30 минут или всегда ВКЛ), Язык (английский, французский, индонезийский, испанский, итальянский, немецкий, голландский, польский, шведский, датский, норвежский и хорватский язык), Радиочастотные еди-



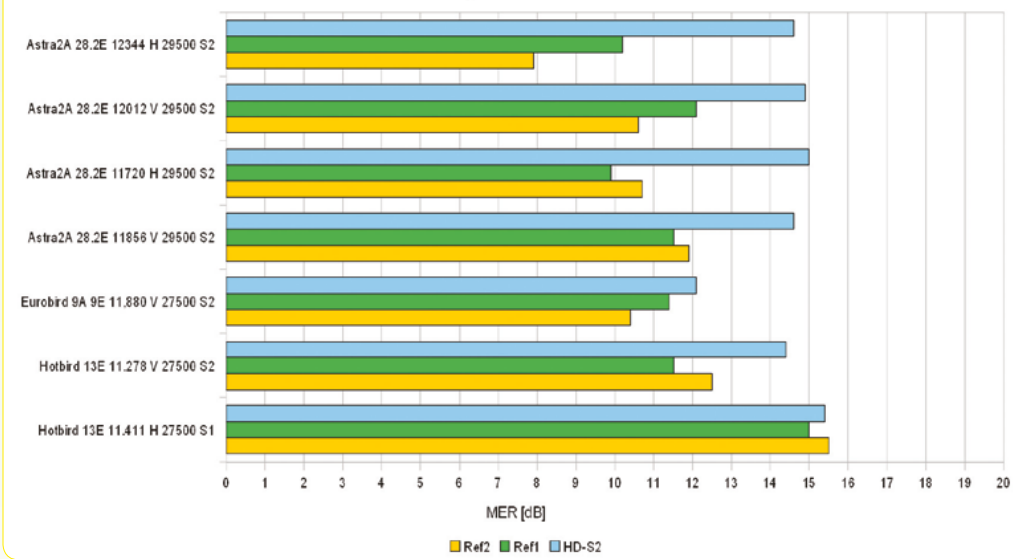
ницы мощности (dBµV/dBm/dBmV), Напряжение малошумящего приемного блока (LNB) (ноль или 13/18V), Значения по умолчанию, Азимут (по Магнитному Склонению/Истинный), Версия встроенного программного обеспечения и Список европейских городов. Последний элемент требует некоторых поясне-

ний. Horizon HD-S2 может вычислить угол возвышения спутника для антенного отражателя, и азимут любого из данных спутников. Чтобы воспользоваться этим, Вы должны выбрать Ваше местоположение. Опции меню "Города Европы" указывают поиск областей, которые предварительно загружены.

Выбор города рядом с Вашим местоположением ускоряет процесс. В зависимости от Вашего варианта азимут антенного отражателя будет рассчитан «привязанным» к географическим или магнитным полюсам. Когда всё установлено соответственно к нашим персональным настройкам, мы можем оставить Меню Установки, совсем выключив измерительный прибор. Теперь мы можем соединить Выход малошумящего приемного блока (LNB) с соединителем Вход (INPUT) на передней стороне панели HD-S2 и включить измерительный прибор кнопкой-стрелкой "Вниз". После приглашающего экрана, измерительный прибор отображает поиск сигналов на экране. Наверху, есть имя спутника и ниже полосковые индикаторы силы сигнала, мощность канала оценивается в dBµV (или другими модулями, установленными в Установочном меню). Стрелками-кнопками Влево/Вправо, Вы можете изменить спутник и назначить одиночный спутник которым Вы интересуетесь, отображаемым, теперь пришло время начинать разворачивать антенный отражатель. Перемещая антенный отражатель, Вы не должны смотреть на дисплей HD-S2, потому что он генерирует гудки. Они изменяются по тону и частоте повторения в зависимости от силы сигнала. Он очень прост в обнаружении точной позиции антенного отражателя только на слух. Как только измерительный прибор захватит принятый сигнал, обозначение висящего дверного замка на экране отобра-



HD-S2 in Comparison with 2 Other Meters



жается как заблокированный и показывает дополнительную полосу. Она представляет Модуляционную Ошибку Отношения (MER). Только её значение в дБ показано ниже полосы. Модуляционная Ошибка соотношения (MER) измерена с разрешающей способностью 0.1 дБ, которая является больше чем достаточной для точного выравнивания антенного отражателя. Однако Horizon сделал на один шаг дальше. После нажима кнопки стрелки «Вниз», мы можем видеть (измененный в масштабе) увеличиваемый

дисплей силы сигнала и Отношения Модуляционных ошибок (MER). Считывание результатов замеров даже более чувствительное к изменениям в позиционировании антенны, чем прежде. Нажатие другой стрелки «Вниз» и мы можем видеть Ошибку в символе Нормы (базовые правила кодирования) для DVB-S сигнала цифрового телевидения или Производную Интенсивность Правил Кодирования ошибочных битов (DER) для HD-S2. Если этого недостаточно, мы можем скрыть сообщение на экране поиска (кнопка-

стрелка «Вверх»), и выбрать спектральный элемент в основном меню. Horizon HD-S2 тогда покажет нам часть спектра тестируемого канала в центре экрана. Выше спектра номер параметров представлен перемещением способом: средняя частота, частота длины пролета, поляризация маломощного приемного блока (LNB) и наличие сигнала на 22 кГц. При неблагоприятных условиях уровня сигнала, мы должны использовать соседний пункт меню: спектр с обозначением лупы. Другой интересный элемент меню,

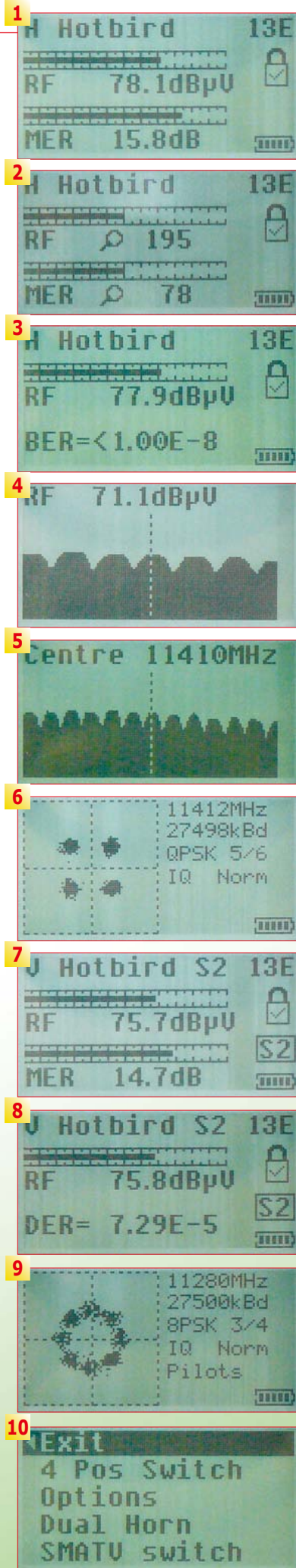
который мы можем посетить, является Совокупность (Созвездие). Поскольку Вы можете ожидать, он отображает совокупность схемы сигнала (квадратурная фазовая модуляция, 8PSK или амплитудно-фазовая манипуляция - в зависимости от сигнала). Дополнительно, ЖКД отображает частоту сигнала, норму обозначения, модуляцию, Упреждающую коррекцию ошибок, перестановку синфазно - квадратурного вектора со сдвигом на 90 градусов (IQ) и присутствие пилотов (HD-S2). По умолчанию наш испытательный образец HD-S2 содержит список значений 20 транспондеров от 13 наиболее популярных европейских спутников. Приборы, отправленные в другие области, конечно, будут, показывать соответствие популярным спутникам. Интернет страничка Horizon www.horizonhge.com содержит подстраницу загрузки для HD-S2, где в будущем могут быть загружены списки для определенной страны. Однако если Вы не удовлетворены их списком, Вы можете также сгенерировать свой собственный список. Имеется четыре списка для цифрового телевидения DVB-S и еще четыре DVB-S2 заказных списка транспондеров для HD-S2, которые пользователь может запрограммировать самостоятельно. Они доступны в пункте меню «Изготовить на заказ». Здесь Вы определяете все необходимые параметры: Частоту потери фрейма, сигнал 22 кГц, частоту транспондера, норму обозначения, упреждающую коррекцию ошибок (может быть оставлено как Неизвестно = Авто), напряжение маломощного приемного блока (LNB), перестановка синфазно - квадратурного вектора со сдвигом на 90 градусов (IQ) и пилоты (только для HD-S2; может быть оставлен как Авто). Важная функция измерительного прибора - своя собственная возможность посылать команды в группы протоколов DiSeqC взаимодействия с ресивером. HD-S2 совместим с группой протоколов DiSeqC взаимодействия ресивера 1.0 и 1.1. В отдельном меню «Элементы», Вы можете выбрать один из 2-х спутников, один из 4-х спутников или один из 16-ти спутников. Кроме того, Horizon HD-S2 может отправить соответствующий команды, чтобы управлять системой со двоянными облучателями, в которых Вы выбираете не только один из двух спутников, но также поддиапазон и поляризацию. К сожалению, Вы не можете использовать HD-S2, чтобы управлять моторизованными приводами группы DiSeqC протоколов взаимодействия с ресивером. Если Вы думаете, что HD-S2 может сделать для Вас всё что угодно, то Вы ошибаетесь. Например, он

ID	Name	Longitude	dBm	dBuV	dBmV	Locked	Pilots	IQ Swap	MER	QBER	Nominal Freq kHz	Measured Freq kHz	Nominal Syn. Rate	Mea Syn
00009-001	V Hotbird 13E	13.0E	-37.65	71.1	11.10	Y			15.9	4.677300E-004	11199000	11200963	27500	2
00009-002	H Hotbird 13E	13.0E	-36.85	71.9	11.90	Y			15.1	6.000000E-008	11410000	11412363	27500	2
00009-003	V Hotbird tp124	13.0E	-36.35	72.4	12.40	Y			14.9	5.858730E-003	10992000	10993433	27500	2
00009-004	H Hotbird tp125	13.0E	-36.95	71.8	11.80	Y			14.1	5.701860E-003	11013000	11014205	27500	2
00009-005	V Hotbird tp126	13.0E	-37.5	71.7	11.70	Y			14.0	3.613100E-004	11013000	11014206	27500	2
00009-006	H Hotbird tp127	13.0E	-37.15	71.6	11.60	Y			13.6	9.672500E-004	11054000	11055715	27500	2
00009-007	V Hotbird tp128	13.0E	-35.95	71.8	11.80	Y			14.6	1.200000E-007	11075000	11076440	27500	2
00009-008	H Hotbird tp129	13.0E	-37.5	71.7	11.70	Y			14.2	5.598350E-003	11056000	11097218	28000	2
00009-009	V Hotbird tp130	13.0E	-37.25	71.5	11.50	Y			15.0	6.532850E-003	11117000	1111970	27500	2
00009-010	H Hotbird tp131	13.0E	-36.75	72.0	12.0	Y			13.1	5.322470E-003	11137000	11138694	27500	2
00009-011	V Hotbird tp132	13.0E	-37.55	71.2	11.20	Y			15.2	6.147380E-003	11158000	11159476	27500	2
00009-012	H Hotbird tp133	13.0E	-37.15	71.6	11.60	Y			14.4	4.838330E-003	11179000	11180185	27500	2

■ Информационное наполнение внутренней памяти HD-S2 Horizon, рассматриваемое с приложением Log Reader после функции всестороннего синхронного протоколирования сигналов передаваемых через спутник HOTBIRD 13 в.д.

A	B	C	D	E	F	G	H	I
1	ID	00009-001	00009-002	00009-003	00009-004	00009-005	00009-006	00009-007
2	Transponder	V Hotbird 13E	H Hotbird 13E	V Hotbird tp124	H Hotbird tp125	V Hotbird tp126	H Hotbird tp127	V Hotbird tp128
3	Longitude	13.0E	13.0E	13.0E	13.0E	13.0E	13.0E	13.0E
4	RF dBm	-37.65	-36.85	-36.35	-36.95	-37.5	-37.15	-36.95
5	RF dBuV	71.1	71.9	72.4	71.8	71.7	71.6	71.8
6	RF dBmV	11.10	11.90	12.40	11.80	11.70	11.60	11.80
7	Locked	Y	Y	Y	Y	Y	Y	Y
8	Pilots							
9	IQ Swap							
10	MER	15.9	15.1	14.9	14.1	14.0	13.6	14.8
11	QBER	4.677300E-004	6.000000E-008	5.858730E-003	5.701860E-003	3.613100E-004	9.672500E-004	1.200000E-007
12	Nominal Frequency kHz	11199000	11410000	10992000	11013000	11013000	11054000	11075000
13	Measured Frequency kHz	11200963	11412363	10993433	11014205	11014206	11055715	11076440
14	Nominal Symbol Rate kBd	27500	27500	27500	27500	27500	27500	28000
15	Measured Symbol Rate kBd	27500	27500	27500	27500	27500	27500	28000
16	Standard	DVB-S1	DVB-S1	DVB-S1	DVB-S1	DVB-S1	DVB-S1	DVB-S1
17	Code Rate	QPSK 5/6	QPSK 5/6	QPSK 2/3	QPSK 3/4	QPSK 3/4	QPSK 5/6	QPSK 3/4

■ Файл регистрации HD-S2 может быть экспортирован в csv файл и затем импортирован в любой редактор электронной таблицы.



имеет специальные пункты меню особенно для того, чтобы тестировать "через Интернет" услугу спутниковой связи Astra2Connect™, которая ищет транспондеры, специализированные для этого обслуживания.

Иная, скорее необычная функция - дрейфовые измерения маломощного приемного блока (LNB), которая может, использоваться, например, чтобы проверить, есть ли дрейф потери фрейма - причина которого потеря сигнала в приемной системе. Кроме того, HD-S2 может даже тестировать маломощный приемный блок (LNB) / так же как кабель на короткое замыкание разомкнутых цепей. Наконец, он может регистрировать результаты измерений во внутреннюю память. Используя считыватель журнала приложения сгружаемого на ПК с вебсайта Horizon, Вы можете просмотреть сохраненные результаты, переданные с HD-S2 на Ваш ПК в формате файла - ASCII. Наиболее экзотические функции, такие как Тест выхода SCR (Одиночный кабельный маршрутизатор) и Функция Гистограмма будут доступны через загрузку с Web-страницы Horizon. Они будут распространять эксплуатационную гибкость измерительным приборам для действительных специалистов. Снабжение маломощных приемных блоков (LNB) напряжением в 21В необходимо для SCR (Одиночный кабельный маршрутизатор) и прибор HD-S2 без затруднений справляется с этим. У него есть специальный пункт меню: 21В для маломощного приемного блока (LNB).

Производительность

Проверяя точность измерительного прибора, мы сравнили его с 2-мя другими

приборами более высокого класса

- более многофункциональным и более дорогостоящим, чем Horizon HD-S2. Как Вы можете увидеть на графиках, значения прибора HD-S2 были немного на лучшей стороне, всегда предоставляя превосходные значения. Однако если Вы используете измерительный прибор для тонкой подстройки антенны - после всех этих основных назначений - HD-S2 даёт истинные значения при установке. Вы будете всегда настраивать свои приёмные системы для максимально стойкого и качественного

сигнала. У одного измерительного прибора максимум в MER = 11.5 дБ и у другого MER = 15 дБ. Но, Вы получаете максимум в точно той, же самой позиции антенного отражателя. Более важно то, что измерительный прибор реагирует очень быстро: оба захватывают сигнал, когда Вы повернёте антенный отражатель и показывают качественные изменения сигнала, когда Вы точнее подстраиваете его. Кроме того, значение MER весьма устойчиво, если антенна не двигается. Эти функции более важны для практика, чем абсолютная точность.

Мнение эксперта



Jacek Pawlowski
TELE-satellite
Test Center
Poland

+ Облегченный, компактный и легкий в использовании спутниковый измерительный прибор для точной настройки антенны. Практичная сумка. Очень хороший аккумулятор. Неожиданно много функций в очевидно простом приборе. Быстрый захват и реакция, сообщающая об изменениях.

- Не поддерживается группа DiSEqC протоколов взаимодействия ресивера 1.2 и USALS.

TECHNICAL

DATA

Manufacturer	Horizon Global Electronics Ltd.
Phone	+44 - 1279 417005
Fax	+44 - 1279 417025
E-mail	sales@horizonhge.com
Web page	www.horizonhge.com
Model	HD-S2
Function	Antenna Alignment Meter
Input frequency	950~2150 MHz
Compatibility with frequency bands	C, Ku and Ka
Modulation	DVB-S, DVB-S2 and DSS
Signal level	40dBµV to 110 dBµV
Symbol Rate	1~45 Msps
LNB supply	250 mA nom., 750 mA max.
Number of pre-programmed satellites	up to 4000 (horizontal & vertical polarization)
Power supply	100~240 V, 50/60 Hz, 0.8A max. 12 V DC, 1.5 A max.
Operational time when fully charged	8 hours typ.

TELE-satellite World

[www.TELE-satellite.com/...](http://www.TELE-satellite.com/)

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Mandarin	中文	www.TELE-satellite.com/TELE-satellite-1011/man/horizon.pdf
Dutch	Nederlands	www.TELE-satellite.com/TELE-satellite-1011/ned/horizon.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-1011/pol/horizon.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-1011/por/horizon.pdf
Romanian	Română	www.TELE-satellite.com/TELE-satellite-1011/rom/horizon.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-1011/rus/horizon.pdf
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Available online starting from 1 October 2010

About Sowell

"Sowell" was the first R&D team who introduced the NXP (conexant) DVB solution to the Chinese market successfully. Within 5 years, it becomes a professional manufacturer for digital broadcasting products based on various chipset solutions.

"Creation and innovation" is the spirit of our R&D team so that we can keep the leading position in this field in China.

"Quality is life", this is the slogan of our factory. We not only invest big capital to enlarge the scale of production but also to the quality control system. Today our factory has 300 workers, 6 production lines, and another 5 production lines will be introduced to assure 600,000pcs per month manufacture capacity at the end of 2010.



2010 Focus

NXP8735 Linux HD DVB-S2



Features

- Fully MPEG-2/MPEG-4(H.264/VC-1) and DVB-S/DVB-S2 Compliant
- Multi-media Function (Playback TS, MKV, AVI, DivX, XviD, VOB, RMVB, RM etc.)
- Linux OS Embedded with Powerful compatibility
- Recording&Playback with External Storage Devices(e-SATA / USB2.0 / HDD)
- Support HDMI output (up to 1080i)
- PIP in One TP
- Conax CAS7.0 Embedded
- Ethernet Embedded
- <1 Watt (Optional)
- Support Youtube
- FTP Download
- USB Hub
- Support SMB
- BT Download
- CPU: PNX8735 MIPS
- Clock Frequency: 320MHz
- Flash Memory: 64M bytes nand flash
- DDR1 Memory: 128M bytes

DVB Series

Digital Satellite Receiver

- >>NXP8735 Linux HD DVB-S2
- >>ST7111 Twin Tuner HD DVB-S2
- >>ST7101 HD DVB-S2
- >>NXP CX388 Twin tuner DVB-S
- >>NXP CX303 DVB-S

- >>NXP CX302 DVB-S
- >>NXP CX301 DVB-S
- >>GX6107 Twin Tuner DVB-S
- >>GX6101 Low-cost DVB-S
- >>CT216s DVB-S

Digital Terrestrial Receiver

- >>NXP8735 Linux HD DVB-T
- >>ST7101 HD DVB-T

Digital Cable Receiver

- >>ST7101 HD DVB-C
- >>NXP CX303 DVB-C

HD/SD COMBO Receiver

- >>NXP8735 Linux HD S2+T COMBO
- >>ST7101 HD S2+T/C COMBO
- >>NXP CX303 DVB-S+T COMBO
- >>NXP CX302 DVB-S+T COMBO+CI

(Plug-in tuner function)

ST7111 Twin Tuner

ST7111 Twin Tuner HD DVB-S2

Features

- Fully DVB-S/DVB-S2 /MPEG-2/MPEG-4/H.264 Compliant
- PIP (Picture In Picture) Function
- PVR Recording (Viewing one channel and Recording another channel Simultaneously)
- Recording TV and Playback JPEG/MP3 with External Storage
- Devices (USB2.0 / HDD)
- Advanced Time-shift function
- Format Resolution: 1080i, 720p, 576p
- Conax CAS7.0 Embedded
- Ethernet Embedded(Optional)

LINUX HD DVB-S2+T COMBO&HD DVB-T2 coming soon...

JQB4P - 4.3° Quad

Моноблочный малошумящий приемный блок от Jiuzhou для ASTRA 1 19.2° В.Д, и ASTRA 3 23.5° В.Д.

В Европе, вероятно, самый популярный моноблок сделан для 6° интервалов. Немного менее популярный малошумящий приёмный блок для 3° интервалов. Но что, если Вы хотите принять 2 спутника, которые обособлены на 4.3° – как ASTRA 19.2° В.д. и ASTRA 23.5° В. д.? Ни один 6°, ни 3-х градусный конвертор моноблок не сделает этого. К счастью, некоторые изготовители обратили внимание на рыночную потребность и сконструировали моноблок на 4.3°. Один из таких изготовителей сориентированный на рынок - Jiuzhou™ (Джиужоу), компания, известная читателям ТЕЛЕ-сателлита. Некоторое время назад, мы испытали их 6° моноблок (ТЕЛЕ-сателлит 06-07/2008). Теперь мы решили обратить пристальный взгляд на JQB4P – счетверённый моноблок для спутниковых интервалов в 4.3°.

Моноблок содержится в металлическом блоке и загерметизирован силиконом. Он довольно тяжелый, поэтому Вы должны выбирать антенну с кронштейном поддержки для значительного веса моноблочного конвертора.

Вместе с конвертором мы получаем пластмассовый адаптер для 40-миллиметровых держателей конверторов. Без адаптера, Вы нуждались бы в 23-миллиметровом держа-

теле. Когда мы устанавливали JQB4P в наши стандартные 40-миллиметровые держатели и затягивали винты, у него все еще была слишком большая свобода для смещения. Самый простой способ был обвёртыванием оригиналь-

ной 23-миллиметровой шейки слоем ленты, и затем помещение в адаптер. Таким путем, мы создали дополнительное трение, теперь там не было никакого риска, что моноблок будет спонтанно изменять его позицию.



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Fig. 1. Comparison of JQB4P vs. Reference Monoblock

Central LNB, ASTRA 3 (23.5 East), Pol.=V

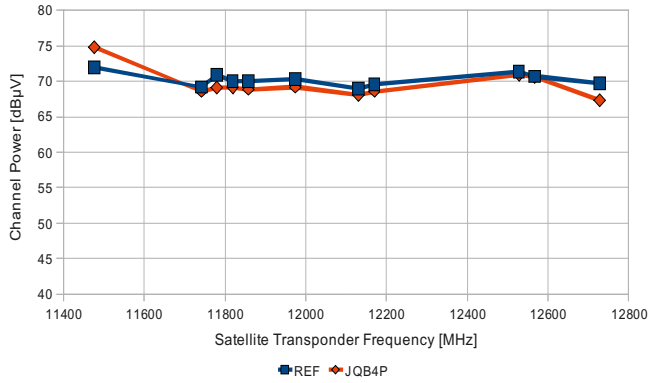


Fig. 2. Comparison of JQB4P vs. Reference Monoblock

Central LNB, ASTRA 3 (23.5 East), Pol.=H

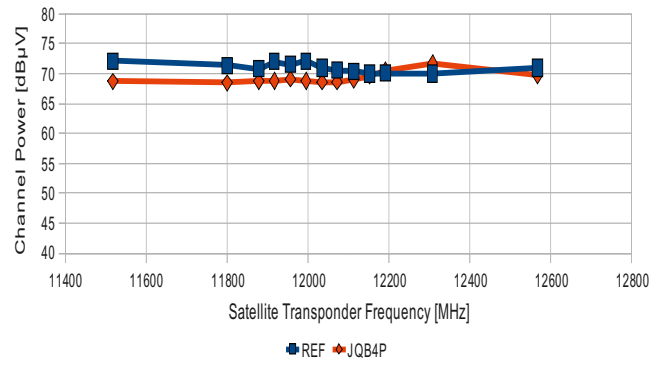


Fig. 3. Comparison of JQB4P vs. Reference Monoblock

Off-Center LNB, ASTRA 1 (19.2 East), Pol.=V

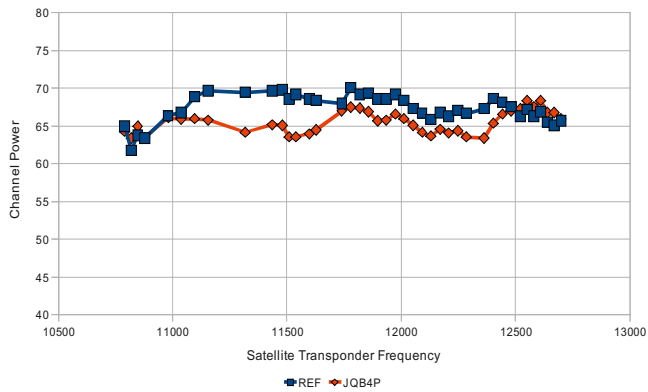


Fig. 4. Comparison of JQB4P vs. Reference Monoblock

Off-Center LNB, ASTRA 1 (19.2 East), Pol.=H

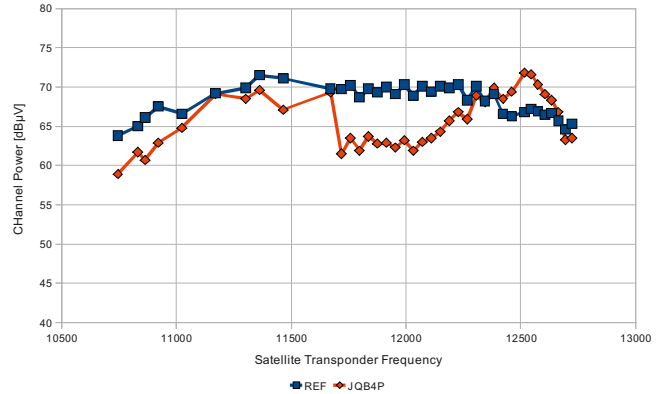


Fig. 5. Comparison of JQB4P vs. Reference Monoblock

Central LNB, ASTRA 3 (23.5 East), Pol.=V

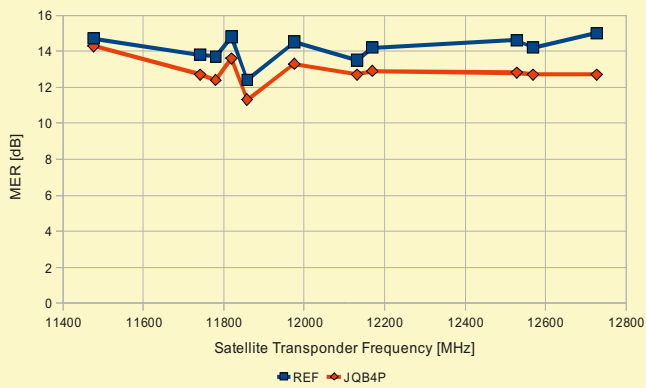


Fig. 6. Comparison of JQB4P vs. Reference Monoblock

Central LNB, ASTRA 3 (23.5 East), Pol.=H

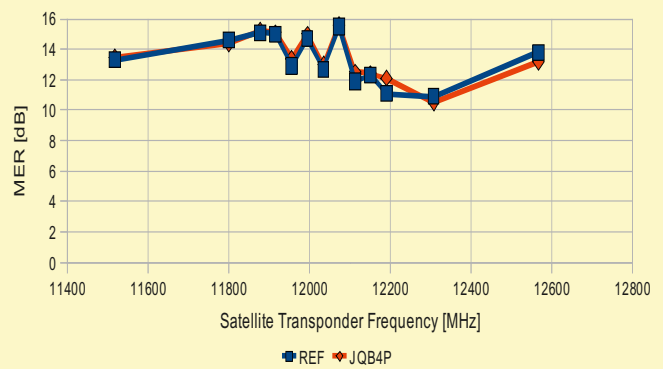


Fig. 7. Comparison of JQB4P vs. Reference Monoblock

Off-Center LNB, ASTRA 1 (19.2 East), Pol.=V

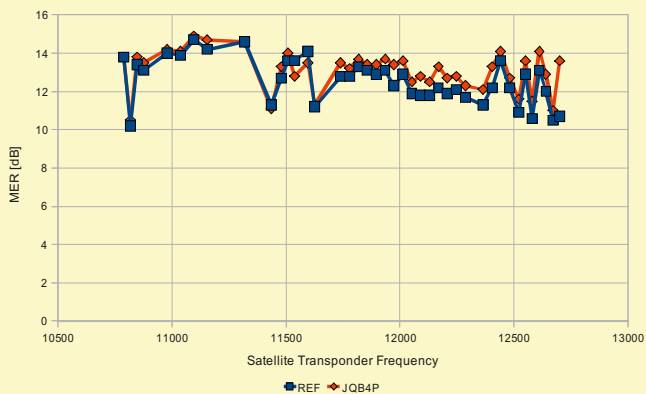
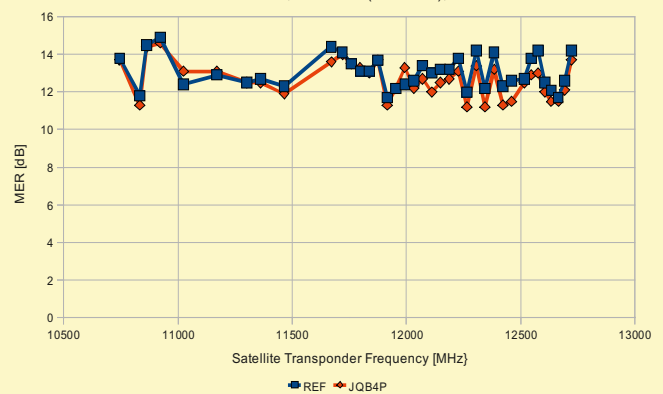


Fig. 8. Comparison of JQB4P vs. Reference Monoblock

Off-Center LNB, ASTRA 1 (19.2 East), Pol.=H





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Fig 9. Comparison of the Four Outputs of JQB4P

Central LNB, Astra 3 (23.5 East), Pol.=V

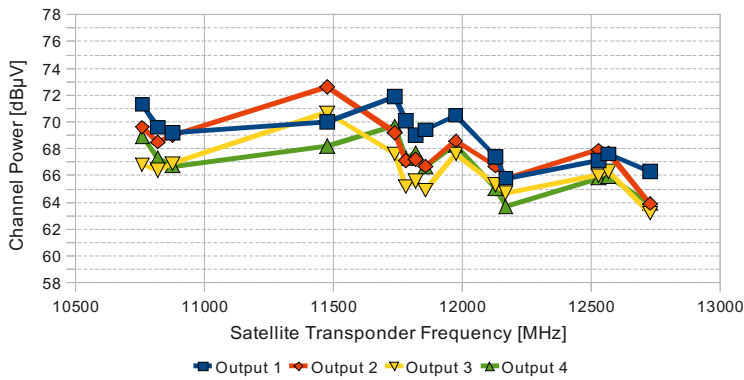


Fig. 10. Comparison of the Four Outputs of JQB4P

Central LNB, Astra 3 (23.5 East), Pol.=H

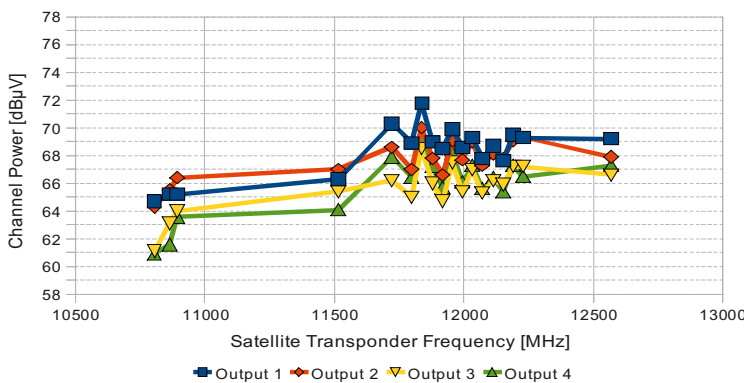


Fig. 11. Comparison of the Four Outputs of JQB4P

Central LNB, Astra 3 (23.5 East), Pol.=H

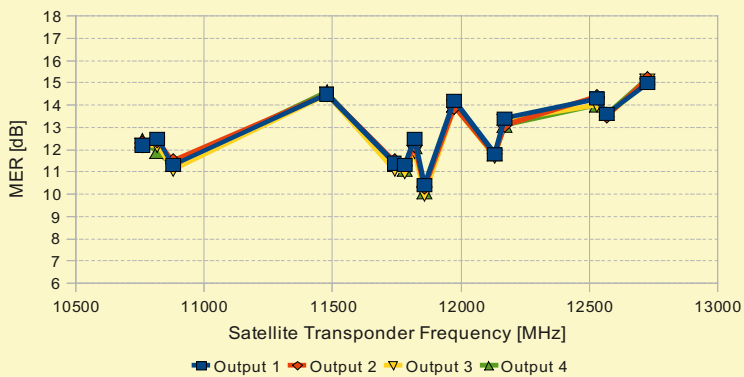
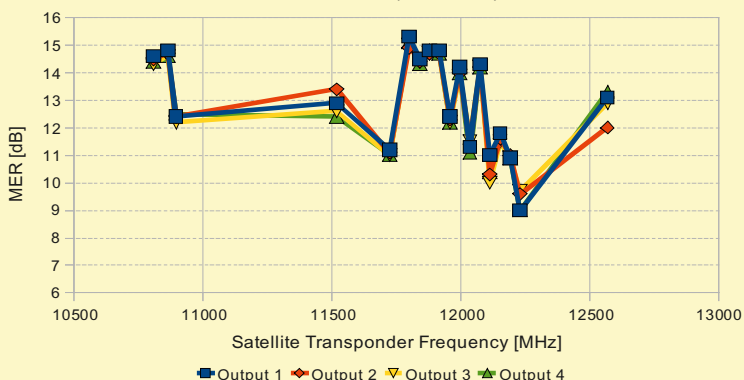


Fig. 12. Comparison of the Four Outputs of JQB4P

Central LNB, Astra 3 (23.5 East), Pol.=H



Первый тест, который мы сделали, должен был сравнить производительность счетверённого конвертора Jiuzhou™ (Джиужоу) с нашим эталонным конвертором. Эталонный конвертор был с низким шумовым порогом универсального одиночного моноблока для интервала 4.3° (NF=0.2dB). Мы использовали офсетную антенну 85x80 см. с отношением f/D 0.6. Оба малошумящих приемных блока (LNB) в центре и малошумящий сбоку были измерены и сравнены друг с другом. Если Вы исследуете иллюстрации 1 - 4, Вы обратите внимание, что счетверённый JQB4P генерирует всего, лишь немного, ниже, чем одиночное устройство. Для мощности в Ки-диапазоне он еще лучше, чем наш эталонный блок. Мы можем сказать, что уровень выходов JQB4P достаточно силён для малого и среднего размера распределительной сети. Только для установок антенны с очень длинными кабелями Вы должны предусмотреть дополнительные усилители. Что же относительно шумовой производительности? Может быть, счетверённое устройство, соответствует по производительности одиночному моноблоку? Измеренные результаты показаны на иллюстрациях 5 - 8. Производительность JQB4P очень хороша, фактически такая же, как у нашего эталона.

Обычно, у устройств типа «четверка» имеются худшие результаты MER, чем у одиночного устройства, но не в этом случае. Только для вертикальной поляризации центрального малошумящего приемного блока (LNB) мы можем наблюдать немного худшую производительность. Горизонтально поляризованные сигналы обработаны одинаково хорошо, так же как у одиночного эталонного малошумящего приемного блока (LNB). У нас имеются еще лучшие результаты с боковым (вне центра) малошумящим приемным блоком (LNB). Здесь, у конвертора JQB4P лучше вертикальная поляризация, и фактически тоже для горизонтальной поляризации. Следующим что мы хотели проверить, было равенство четырех выводов JQB4P. Иллюстрации 9 - 12 расскажут историю: фактически нет никаких различий между четырьмя выводами. Особенно почти идентичны результаты MER. Это означает что ни один из четырех выходов сигнала не выше или ниже по сравнению с другими. Это, возможно, было бы концом нашего теста, но мы решили проверить кое-что больше. Есть еще один спутник, который находится в подобном угловом расстоянии от ASTRA 3 23.5° в.д. Мы подразумеваем ASTRA 2 28.2° в.д. Различие не 4.3°, а 4.7°, но кто знает, возможно, может статься так, что можно будет использовать JQB4P для этой пары спутников? Мы снова установили моноблок в держателе так, чтобы теперь нецентральный конвертор был в противоположной стороне, и проверили сигнал.

К нашему восхищению наш измеритель сигналов немедленно отобразил зеленую улыбающуюся рожицу, которая означала, что прием был возможен. Сравнивая это, мы взяли другой набор измерений - смотрите иллюстрации 13 и 14. Результатом точной экспертизы стало то, что есть потеря качества сигнала, по сравнению с приемом спутников расположенных с

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Internet	http://www.jiuzhou.com.cn/
E-mail	overseas@jiuzhou.com.cn
Telephone	+86-816-2468428 / +86-816-2468360
Fax	+86-816-2468903 / +86-816-2469241
Model	JQB4P
Function	Universal Ku-Band Monoblock Quad LNB for 4.3° spacing
Noise Figure	0.6 dB max.
LOF	9.750 and 10.600 GHz
Frequency Stability	± 1 MHz max. @ T=25° C ± 3 MHz @ T= -30...+60° C
Gain	50 dB min.
Gain Variation	8 dB p-p (max.)
Cross Polarization Isolation	20dB (min.)
Phase Noise at 1 kHz Offset	-60 dBc/Hz
Phase Noise at 10 kHz Offset	-80 dBc/Hz
Phase Noise at 100 kHz Offset	-100 dBc/Hz
DC Current Consumption	250 mA (max.)
Operating Temperature	-40...+60° C
Waterproof	+60° C WATER FOR 5 MINUTES
Holder Diameter	23 MM

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Очень хорошее решение для ASTRA 1 19.2°в.д. и ASTRA 3 23.5°в.д. Превосходная шумовая производительность обоих маломощных блоков преобразования. Соответствие конкурентам на 0.2-0.3 децибела. Все четыре вывода одинаково хорошие.



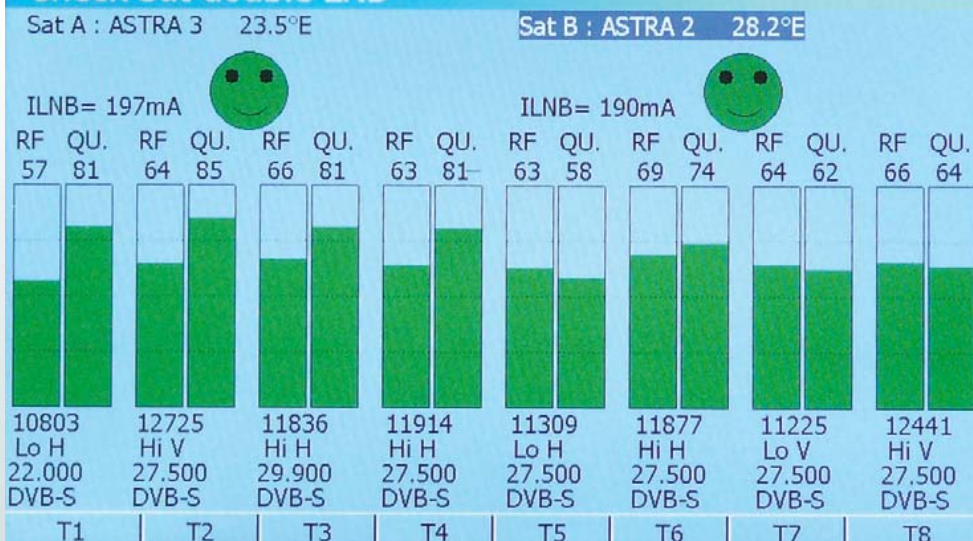
Jacek Pawlowski
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Poland

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1 Check Sat double LNB



2 Check Sat double LNB



разносом 4.3°. Вы можете ожидать проблем с приемом некоторых транспондеров, особенно в плохую погоду. Однако более сильные транспондеры должны все еще быть приемлемыми для приёма. И не забывайте что это устройство не предназначено для такого использования. Мы перемещали его, чтобы удовлетворить наше (и, мы надеемся, ваше) любопытство. Таким образом, хорошая идея состоит в том, чтобы использовать JQB4P для 4.3°-ных интервалов соответственно с его спецификацией. Вы будете удовлетворены результатами. Приём 2-х спутников с интервалом в 4.7° все еще возможен, но не гарантирован на всех транспондерах в плохую погоду.

Для такого нестандартного использования, Вы можете предпочесть использование JQB4P установленным на меньшей зеркальной антенне, скажем, 75x70 см. В таком случае, смещение маломощного приемного блока (LNB) должно идеально соответствовать спутниковому интервалу 4.7°.

1. Прибор обнаруживает совершенное прицеливание для 2-х спутников. Моноблок JQB4P используется для приема ASTRA 1 (19.2° В.Д.) и ASTRA 3 (23.5° В.Д.) – интервал 4.3°.

2. Моноблок может быть успешно использован для другой пары спутников: ASTRA 3 (23.5° В.Д.) и ASTRA 2 (28.2° В.Д.) – интервал 4.7°. Теперь также, наш измеритель обнаруживает очень хорошую силу сигнала и его качество.

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Website	www.horizonhge.com
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1009/tur/horizon.pdf

Manufacturer	SPAUN Electronic
Website	www.spaun.de
Function	TV Signal Analyzer with WiFi Receiver
Frequency Range	45~865 MHz (terrestrial) and 950~2150 MHz (satellite)
Video Output	RCA Composite
Built-in Monitor	7 inch 16:9 color LCD display

Manufacturer	Horizon Global Electronics
Website	www.horizonhge.com
Function	Digital and analog terrestrial TV meter with spectrum analyzer and USB data output
Frequency Range	49~861 MHz
Video Output	—
Built-in Monitor	LCD display

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SPAROS 609 WIFI OPTION
Converts the signal analyzer to a universally usable tool



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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1007/tur/satcatcher.pdf

Manufacturer	SatCatcher
Website	www.satcatcher.com
Function	Signal Meter for DVB-T, analogue TV, digital DAB radio, analogue FM radio
Frequency Range	46-870 MHz
Video Output	—
Built-in Monitor	120x64 3.5" LCD color display



SATCATCHER DIGIPRO T MAX
Easy to use signal meter that doesn't stop at DVB-T. Everything you want from a signal meter



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Manufacturer	Horizon Global Electronics
Website	www.horizonhge.com
Function	DVB-C and analog cable TV meter
Frequency Range	51-858 MHz
Video Output	—
Built-in Monitor	LCD display



HORIZON HD-CM CABLE METER
Small, lightweight and easy to use anywhere in the world



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Manufacturer	8dtek Technology
Website	www.8dtek.com
Function	DVB Signal Meter with tv monitor for DVB-S and DVB-T
Frequency Range	950~2150 MHz (satellite) and UHF/VHF (terrestrial)
Video In/Output	RCA/RCA
Built-in Monitor	3.5" LCD color display

Manufacturer	Trimax Technology
Website	www.trimaxtec.com
Function	Satellite Meter with TV and Spectrum
Frequency Range	930~2150 MHz
Video Output	RCA Composite
Built-in Monitor	3.5" LCD color display

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Easy menu operation and exceptionally simple to operate

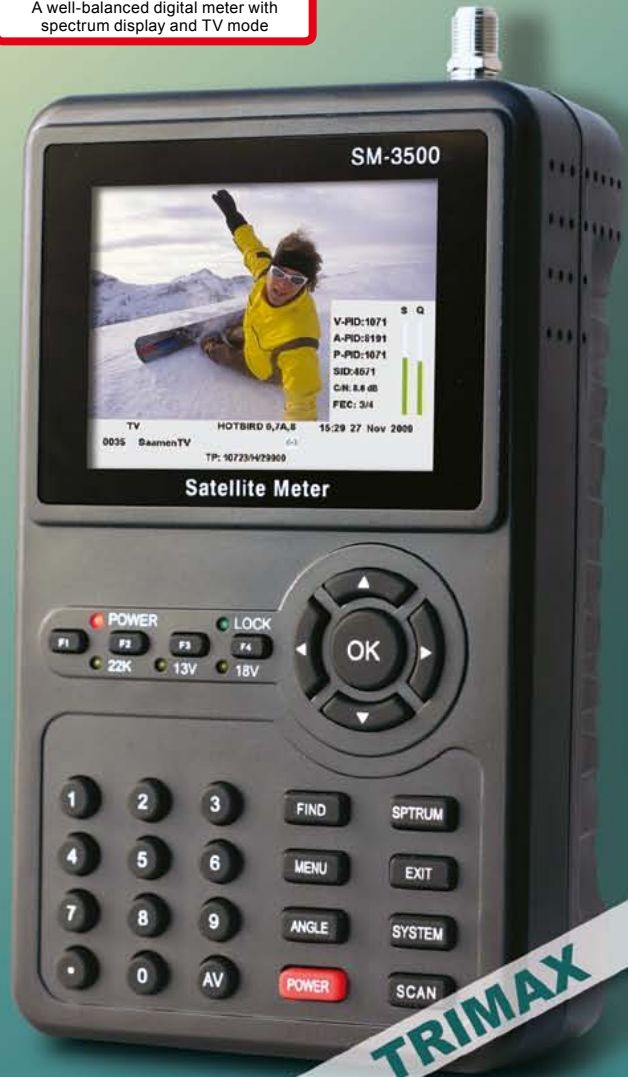


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A well-balanced digital meter with spectrum display and TV mode



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Manufacturer	Horizon Global Electronics
Website	www.horizonhge.com
Function	Handheld Satellite Meter for fast and easy Dish Alignment
Frequency Range	950-2150 MHz
Video Output	—
Built-in Monitor	128x64 Pixel LCD



NANOSAT

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Manufacturer	Global Invacom
Website	www.globalinvacom.com
Function	Signal Analyzer with an Optical Input
Frequency Range	950(160)-2150 MHz
Optical Range	+10 to -25 dBm
Video Output	—
Built-in Monitor	Eight-digit LCD display



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Manufacturer	SatCatcher
Website	www.satcatcher.com
Function	Fully-fledged Signal Meter with TV display
Frequency Range	930-2150 MHz
Video Output	RCA Composite
Built-in Monitor	120x64 3.5" LCD color display

Manufacturer	Horizon Global Electronics
Website	www.horizonhge.com
Function	Satellite Meter optimized for Ka-Band
Frequency Range	950-2150 MHz
Video Output	—
Built-in Monitor	LCD display

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Romanian	Românesc	www.TELE-satellite.com/TELE-satellite-0909/rom/spaun.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-0909/rus/spaun.pdf
Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0909/sve/spaun.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0909/tur/spaun.pdf

Manufacturer	SPAUN Electronic
Website	www.spaun.de
Function	TV Signal Analyzer
Frequency Range	45~865 MHz (terrestrial) and 950~2150 MHz (satellite)
Video Output	RCA Composite
Built-in Monitor	7 inch 16:9 color LCD display

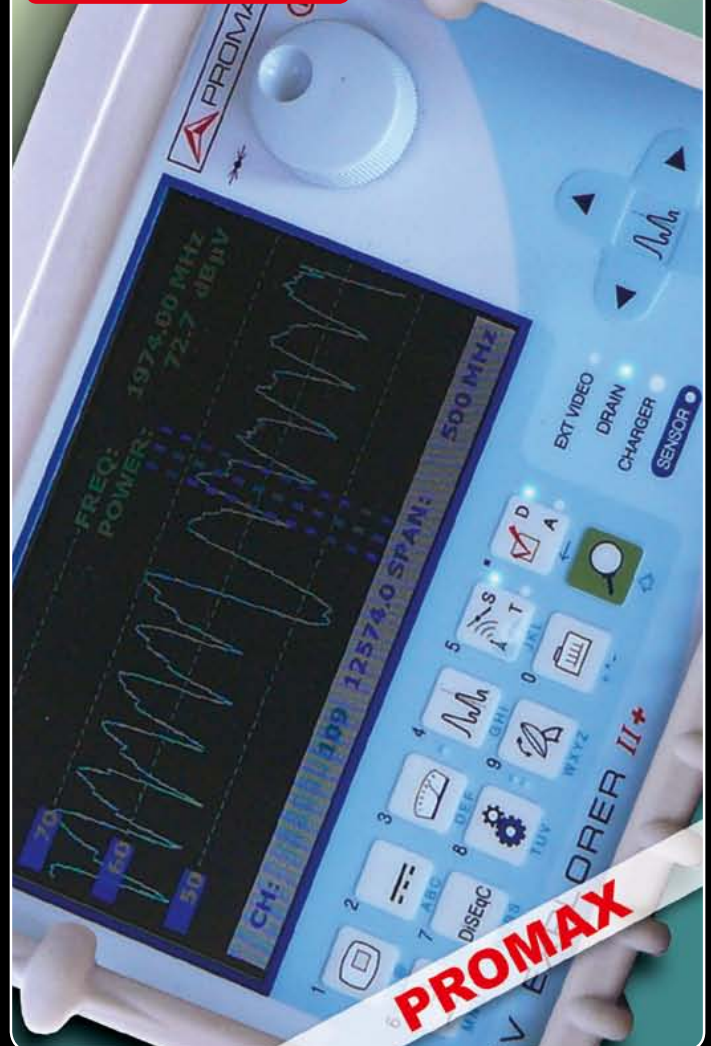


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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0807/tur/promax.pdf

Manufacturer	PROMAX Electronica
Website	www.promax.es
Function	Universal Satellite Signal Meter and Analyzer
Frequency Range	5~1000 MHz (terrestrial) and 950~2150 MHz (satellite)
Video Output	Scart connector
Built-in Monitor	Transflective TFT 6.5 "



DOEBIS Расширяется

Ровно три года назад ТЕЛЕ-сателлит опубликовал отчет о DOEBIS™, спутниковом оптовом торговце в Германии. Мы подумали, что наступило неплохое время осведомиться у DOEBIS™, как они переживали всеобъемлющий кризис. Мы получили быстрый удивительный ответ: "Мы расширяемся!" говорит Райнер Веркинг (Rainer Werking), управляющий операциями в DOEBIS™. Компания использовала экономический кризис, который наступил в 2008 году и вместо того, чтобы уменьшаться, они выбрали встречную стратегию: они использовали возможность, для вложения капитала и, прежде всего расширения их торгового штата.



■ Операционный менеджер Райнер Веркинг (Rainer Werking) за рабочим столом. С его мощными руками он продолжает двигать компанию вперед. Действительно, он только недавно выиграл первый приз в толкании ядра на немецких соревнованиях среди взрослых!

DOEBIS



**Mündersbach
(Frankfurt)**



■ Вход в штаб-квартиру DOEBIS™ в Промышленной зоне Муендерсбах (Muendersbach), не слишком далекой от Франкфуртской автомобильной дороги.



■ Главный финансовый менеджер Вольфганг Пфлаум (Wolfgang Pflaum) всегда на телефонной связи с его заказчиками и членами его отдела Сбыта.

TELE-satellite World

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Available online starting from 1 October 2010

■ Клаус Рубесам (Claus Ruebesam) является менеджером клиентской и технической служб. Здесь он принимает участие в демонстрации приёмника телевидения с высоким разрешением HDCl 2010, одного из приёмников DOEBIS™ под маркой JAEGER™ от DOEBIS™, с которыми DOEBIS™ намеревается увеличить показатели продаж.



Вольфганг Пфлаум (Wolfgang Pflaum) был ведущим менеджером по работе с крупными заказчиками с конца 2009 года. Он был знаком со спутниковой промышленностью с самого ее основания. Он мысленно возвращается в прошлое: "Моим первым приёмником был MASPRO".

Это было в 1988 году, и с тех пор он работал на различных должностях в спутниковой промышленности. Его работа в DOEBIS™ была по развитию сбытового и финансово-коммерческого отдела: "Прямо сейчас у нас имеется 10 служащих в нашем отделе Сбыта, чтобы ежедневно обра-

ботать большое количество запросов заказчиков", докладывает Вольфганг Пфлаум (Wolfgang Pflaum) о его действиях. Такая большая мобилизация отдела Сбыта окупилась: "Мы ожидаем, увеличение сбыта на 25 % в 2010 году", объясняет Райнер Веркинг (Rainer Werking), блстая данными о

FROM A DIFFERENT PERSPECTIVE

OPENSAT 



OPENSAT 9700/9900 HDPVR

- 1xSmartcard reader • 2xCI slot • Fully compliant with MPEG-4 HD/H.264 (DVB-S/SVB-S2)
- Video resolution 576i,p/720p/1080i • Various video output (HDMI/YPbPr/Scart/CVBS)
- Multimedia functions (MP3/JPG/DivX play support) • VFD display
- PVR ready through USB 2.0 interface • RJ-45 Ethernet interface (9900HDPVR model)
- Blind Scan/Fast Scan/Unicable support • Background recording&playback while recording function

продаже товаров "... и на 2011 год мы ожидаем иного 10%-ого увеличения".

Вольфганг Пфлаум (Wolfgang Pflaum) объясняет причину таких превосходных результатов сбыта: "Мы добавили две очень состоятельных марки к нашему выбору: TOPFIELD™ - для высокопроизводительного сегмента, и STRONG™ для среднего сегмента". DOEBIS™ быстро позволил, их заказчикам узнать об этих двух новых торговых марках, и таким образом реализовал очень хорошие результаты сбыта. Но поставщик DOEBIS™ не продает конечным пользователям, так, кто, же тогда заказчики DOEBIS™? "Главными заказчиками DOEBIS™ всегда являются специалисты и инсталляторы", поясняет Вольфганг Пфлаум (Wolfgang Pflaum). Новые действия сбытовой торгово-финансовой группы расширились, чтобы включить

классический заказ по почте через каталоги грузоотправителей, а также он-лайн продажи внутри страны и по всему миру. Высоким требованиям этих заказчиков также уделено особое внимание. Райнер Веркинг (Rainer Werking) дает нам короткий обзор географического размещения: "75 % нашего объема занимают немецко-говорящие страны, в то время как 25 % отбывают за границу". Эти проценты - фактически такие же, как они были три года назад, когда мы первоначально сообщали относительно DOEBIS™ (ТЕЛЕ-сателлит 10-11/2007). Сравнивая журнал трёхлетней давности, мы обратили внимание на кое-что еще: "... распределение продуктов также осталось тем же самым", говорит Райнер Веркинг (Rainer Werking), "... 70 % являются приёмниками, 10 % - малолетними приёмными бло-

ками (LNB) и 5% - анализаторы сигналов". На длительную перспективу DOEBIS™ ожидает сдерживание роста количества приёмников, особенно наиболее дешевых приёмников ухудшенного качества сигнала. "По этой причине DOEBIS™ ищет новые рынки. Мы основываемся на качестве и новых технологиях", говорит Райнер Веркинг (Rainer Werking), поскольку он объясняет их диверсификационную стратегию. Поскольку приёмники высокой четкости на подходе, у Райнера Веркинга (Rainer Werking) есть немного удивительного для нас: "Мы разработали свою собственную марку приёмников!" DOEBIS™ недавно начал торговать их собственным приёмником под маркой JAEGER™. Эта линия - результат многих предложений заказчиков. "С JAEGER HDCI 2010 мы предлагаем приёмник высокой четко-



■ Вид на внушительные большие склады DOEBIS™. Компания расположена непосредственно в центре и может доставить грузы заказчикам одинаково как в северную Германию, так и в южную Германию, а также во все соседние страны.

Xtra-S T



SIZE: 129mmx101mmx35mm

Minisat-plus S2/NIT/DSS



SIZE: 107mmx85mmx26mm

Minisat-basic S2/NIT



SIZE: 107mmx85mmx26mm

Unicable Ready



- Installation Meter & Full Measurement Device for DVB-S & DVB-T
- Input Frequency : 950~2150 MHz [DVB-S] & 46~868MHz [DVB-T]
- Input Impedance : 75 Ω, Input Level -65~-25dBm
- BER, S/N (MER), FEC Measurement, [DVB-S]
- BER, S/N (MER), CON, GUA, MOD Measurement [DVB-T]
- Auto Search, Blind Search, NIT Search, Manual Search [DVB-S]
- TP Scan, Auto Full Frequency Scan [DVB-T]
- DiSEqC1.0/1.1/1.2, USALS Supported [DVB-S]
- 13V/18V, 22K [DVB-S] & 5V/12V/18V/24V output support [DVB-T]
- Real Time & Multi Analyzing Spectrum for both DVB-S & DVB-T
- Dish Antenna Angle Calculator [DVB-S]
- Multi-Language OSD: English, German, French, Spanish, Italian, Swedish, Russian, Arabic, etc.
- Global Satellite List [DVB-S], Global UHF & VHF Frequency List Selection [DVB-T]
- LED & Audio Indication for Signal Lock
- Satellite Name & Degree Auto Detect & Display [DVB-S]
- Multi-Channel (8) Simultaneous Measurement [DVB-T]
- Satellite List Editable by Editor via PC
- 3.5 Inch High Definition TFT LCD Screen
- RCA AV-IN Function for STB, Camera, etc
- RCA AV-OUT for External Display, TV, etc.
- Accessories : RCU, Compass, Car Charger, Adaptor, Water-Proof Bag, Shock-Proof Rubber Shield

COMBO-JET



SAT-JET



SIZE: 129mmx101mmx35mm

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Milestone DTV Device Creator

сти для цифрового телевидения стандарта S2 и с MPEG4", объясняет Райнер Веркинг (Rainer Werking), "другая модель высокой четкости JAEGER + 2011".

Эти два приёмника доступны уже теперь; третья модель будет доступна с момента публикации этого выпуска журнала; приёмник телевидения с высоким разрешением JAEGER HD+ 2011 CI+. Журнал ТЕЛЕ-сателлит планирует тестовый обзор для этой модели в предстоящем выпуске. "Наши модели JAEGER™ собраны в Германии", проясняет Райнер Веркинг (Rainer Werking). Главный финансовый директор Вольфганг Пфлаум (Wolfgang Pfäum) продолжает, "На 2010 год мы ожидаем, сбыт марки JAEGER™, на уровне приблизительно 5 %; в 2011 году мы проектируем увеличение до 10 %. Для среднесрочной перспективы мы предполагаем, что приёмники JAEGER выровняются на отметке 20 % от сбыта приёмников DOEBIS™". Пока мы говорим о приёмниках, мы хотели бы узнать какие различные сегменты Вы могли бы принять с приёмниками DOEBIS™. Райнер Веркинг

(Rainer Werking) был готов с ответом: "В 2010 году, 65 % приёмников шли с устройствами точной настройки спутников, 10 % с наземными устройствами настройки и 25 %

устройств с блоками настройки для кабельного вещания. В 2011 году мы ожидаем увеличение устройств с блоками настройки для кабельного вещания до 30 % и понижение в наземных приёмниках до 8 %, в приёмниках же спутниковой связи до 62 %". Администраторы DOEBIS™ ожидают, что к 2012 году: "...последнее транспондеры аналогового телевидения будут выключены, вынудив миллионы устройств для просмотра, быть модернизированными для цифрового приёма", комментирует Райнер Веркинг (Rainer Werking), "... к тому времени наш склад будет заполнен цифровыми приёмниками". Если Вы посмотрите на продуктовую линейку DOEBIS™, Вы увидите, что он частично использует высококачественные продукты от самых именитых игроков на рынке. Это удивительно, но DOEBIS™ также предлагает оптоволоконные малошумящие приемные блоки (LNB). "Уже теперь 5 %

наших заказчиков избрали для продаж только оптические малошумящие приемные блок (LNB)", поясняет Райнер Веркинг (Rainer Werking), "На 2011 год мы ожидаем, что это значение увеличиться до 10 %". Могло бы все еще пройти немного времени, но придёт время, настанет пора, когда будут продаваться только оптоволоконные малошумящие приемные блоки (LNB). "Эти малошумящие приемные блоки (LNB) могут казаться дорогостоящими, но они существенно лучше, и могут быть использованы в любом приложении", подтверждает Райнер Веркинг (Rainer Werking). Журнал ТЕЛЕ-сателлит категорически соглашается с этим ощущением. Обычно только ранние птицы, прокладывают путь, чтобы все остальные, в конечном счете, наследовали их. DOEBIS™ - определенно одна из ранних птиц. Они видят эти новые возможности и атакуют их. DOEBIS™ существовал на протяжении 22-х лет и за это время испытал все победы и поражения в спутниковой промышленности и все же управляемо продолжает расти. DOEBIS™ - то, на что похож успех!

Новые приёмники, сделанные DOEBIS™:

JAEGER

■ Приёмник JAEGER™ HD+ 2011 HDTV DVB-S2



■ Приёмник с CI и USB - JAEGER™ HDCI 2010 HDTV DVB-S2





- .MPEG2/MPEG 4 / H.264
- .Linux Operation System
- .2 Common Interface Plus (CI+) & Conditional Access
- .TWIN TUNER
- .LAN (web browser, YouTube, Internet Radio, VFTP, SMB)
- .CEC (Consumer Electronic Control)
- .USB PVR/USB Update/ USB Wifi/ Keyboard Connection (4*USB Available)
- .Timeshift supported
- .Unicable supported
- .Multi-media (mkv, avi, mov, flv, mp4, jpg...)
- .10/13 digits VFD and LCD Display Optional
- .Extention to ISDB-T, DVB-T, DVB-C HD, and Combo Optional
- .CE & RoHS, LPC, EuP, FCC, Reach Compliant

Model: S1-33HD



Satellite Meter/Terrestrial Meter



LCD TV | Digital TV with DVB-S/T/ S2/ISDB-T Build-in/Removable



Display Size
• 26"
• 32"
• 42"

SmartWi, для завоевания рынка поставщиков программных услуг

Читатели этого журнала были знакомы с изготовителем радиофицированного считывателя карт SmartWi в течение многих лет. В выпуске ТЕЛЕ-сателлит 06-07/2007, мы опубликовали первый отчет об этой датской компании, которая придумала великолепную идею: такую как передачу данных от одной карты условного доступа поставщика платных услуг второй карте в том же самом домашнем хозяйстве? Внезапно Ваше удовольствие от просмотра может быть расширено таким способом от гостиной комнаты к спальне, зимнему домику или любой другой комнате в Вашем местоположении. Платное телевидение везде - там, где Вам нравится - такая умная мысль как эта, заслуживает также собственного имени: «умный» Wi-Fi, или вкратце SmartWi™.



Kruså
(Padborg)



smartwi®

Курт Олесен (Kurt Olesen) – мозговой центр стоящий позади SmartWi. Он основал компанию в 2005 году, и когда мы посетили его в первый раз в 2007 году, он ехал на гигантской волне успеха. 60 000 продуктов SmartWi были проданы в 2007 году, но количество продаж постепенно уменьшалось в последующие годы. “В 2010 году мы продадим приблизительно 35 000 устройств SmartWi”. Однако Курт Олесен (Kurt Olesen) имеет чрезвычайно уверенный взгляд в будущее – и вот по какой причине: “...приблизительно в момент выхода из печати выпуска журнала ТЕЛЕ-сателлайт и на выставке IBC мы запустим на рынок второе поколение SmartWi”, объясняет Курт Олесен (Kurt Olesen) и гордо показывает нам новую модель SmartWi. “Она работает точно так же как модель первого поколения”, продолжает он. “Клиенты просто включают оплаченную карту телевизионного доступа в устройство и могут наблюдать платные телепрограммы на втором телевизионном приёмнике, используя дополнительную карту, которая свя-

зана с главным устройством посредством радиосигналов”. Новый SmartWi сделал качественный скачок, который может быть ясно замечен даже с внешней стороны. Сын Курта Олесена Дженс Глад (Jens Glad) ответственен за технологию и разработку в пределах бизнеса и определил элегантный внешний вид устройства. В то время как первое поколение по внешнему виду сильно походило на компьютерного уродца, новый модуль SmartWi имеет для запланированной победы то, что почти призывает к победе, даря ему гордость, скорее, чем сокрытие его глубоко позади стойки.

Это – активный стиль, он также легко завоеует домохозяек, не надейтесь на ожидаемое возражения против еще одного технического устройства. Само собой разумеется, что облик не обманывает в этом случае. Только послушайте Дженса Глада (Jens Glad), перечисляющего все новшества занявшие место внутри: “... главное – более быстрый процессор и новая перепрограммируемая память, которая удвоилась по отношению к предыдущей

версии”. Это делает второе поколение SmartWi значительно быстрее и намного более отзывчивым. Но имеется нечто большее. “Встроенная антенна теперь устроена в расположении, которое позволяет антенне полностью выдвигаться вдоль продольной стороны устройства, что сделано для решительно лучшей передачи мощности, по сравнению с предыдущим месторасположением”, объясняет Дженс. Другая очень интересная особенность на устройстве – второе гнездо для карты условного доступа за плату. “У нового SmartWi есть все требуемые аппаратные средства для того, чтобы использовать две карты условного доступа в то же самое время”, утверждает Дженс Олесен (Jens Olesen).

Эти модели в настоящее время отправляются, без активации для двойного использования карт, но обновление программного обеспечения откроет эту особенность запросом. Продукты SmartWi первого поколения главным образом продавались, окончательным пользователям, но Курт Олесен (Kurt Olesen) намерен также вступить на неотме-

■ Это дом хозяев SmartWi в маленьком городе Krusa в южной Дании, прямо через границу с Германией. Три флагштока гордо несут флаги SmartWi, привлекая внимание прохожих.



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Available online starting from 1 October 2010

■ Курт Олесен (Kurt Olesen) - основатель и управляющий директор SmartWi. Здесь он показывает последнее поколение SmartWi. Эта расширенная версия предназначена, чтобы завоевать поставщиков программных услуг/оперативной информации и, следовательно, значительно приумножить бизнес компании.



ценную, на карте территорию в этой области. Второе поколение SmartWi недвусмысленно предназначено для рынка поставщиков. "Вот почему мы изменили дизайн и поменяли цвет на чёрный", добавляет Дженс Глад (Jens Glad), неся ответственность за то решение. "Для новых поставщиков оперативной информации дизайн SmartWi будет в состоянии предлагаться под их собственный фирменный знак". В этом

■ Предварительное изображения нового SmartWi: устройство первого поколения с его скучным дизайном слева, и SmartWi второго поколения и его элегантный облик справа. Старый SmartWi принимает в себя подписную карту со стороны, в то время как в новой версии карта полностью исчезает, создавая более изящный вид.



случае он абсолютно прав, когда заявляет, что поставщики упрямо игнорируют огромный рынок с точки зрения второго или третьего телевизоров в домах.

"Вот я поинтересуюсь у Вас, действительно ли вы знаете много людей только с одним телевизором?" хочет знать Курт Олесен (Kurt Olesen). Однако большинство поставщиков оставляют этих клиентов вне поля зрения, потому

что они любым способом вынуждают их заказать вторую подписку по полной цене (что в большинстве случаев даже не рассматривается), или предлагают вторую карту условного доступа по немного заниженной цене – но с другой стороны нет никакого способа узнать, кто на самом деле будет использовать их дополнительные карты, и нет никакого способа удостовериться, что они остаются в том же самом домашнем хозяйстве. С другой стороны, если же поставщики решат непосредственно предлагать SmartWi их подписчикам или, по крайней мере, официально лицензируют это, каждый подписчик будет в состоянии использовать его второй или третий телевизионный приёмник легальным способом так, как беспроводный диапазон SmartWi покрывает, только лишь один дом. Таким образом, поставщики программного продукта не должны бояться незаконного разделение карты доступа, поскольку с системой SmartWi это не возможно по определению.

Курт Олесен (Kurt Olesen) абсолютно убежден, что „...поставщики оперативной информации могли бы насладиться огромным новым рынком“. С другой стороны он также знает об основной дилемме: „Технический персонал в компаниях поставщиков обычно открыты для SmartWi, но отделы маркетинга – которые не особо заботятся о технологии – просто не улавливают всего того, что может наш продукт“. Однако, в одном Курт Олесен (Kurt Olesen) уверен: новый дизайн внешнего облика также привлечёт внимание маркетологов, которые являются на самом

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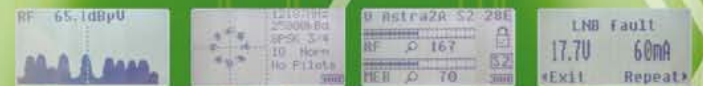
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■ Дженс Глад (Jens Glad) - сын основателя Курта Олесена (Kurt Olesen) отвечает за технологию. Здесь он может быть замечен за программированием SmartWi. Каждый продукт помечен уникальным кодом через программное обеспечение и промаркирован индивидуальным регистрационным номером. Таким способом, возможно, отследить каждый отдельный блок SmartWi.



■ Ежгилд Лунд (Ejgild Lund) административный менеджер в SmartWi. Он берет на себя заботу о работе офиса, выставляя счета и ведя бухгалтерию.



деле первым этапом на пути к запуску второго поколения SmartWi на рынке поставщиков программных услуг. Фактически, продукт SmartWi, который только восполнял маленькую нишу рынка, при первоначальном предложении. Эта ниша, тем не менее, постоянно расширялась благодаря духу новаторства и стратегии настойчивости. Компания, которая начиналась со штата в три человека, тем временем превратилась в оператора с 6-ю служащими. И это количество предполагается быть увеличенным еще больше, как только SmartWi получит точку опоры на рынке для поставщиков программных услуг.

Первый признак успеха уже задекларирован: „...словацкий поставщик SATRO использует SmartWi уже сегодня“, говорит Курт Оlesen (Kurt Olesen) обеспечивая провозглашение нового курса действий компании. SmartWi твердо нацелен на превращение скромного новичка в признанного игрока рынка, благодаря постепенному, но все же последовательному развитию первоначальной ниши продукта. Ещё одна захватывающая история успеха!



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■ Офис администрации SPAUN (на переднем плане) и производственное помещение (справа) в Синген (Singen), на юго-западе Германии.



■ Кевин Спаун (Kevin Spaun), управляющий директор SPAUN POWER GmbH

Каждый мультипереключатель и каждый усилитель приезжая содержат это, и, конечно же, каждый приёмник имеет это, также: блок электропитания, который обязан, соединить устройство с сетью. Он стал таким обыденным компонентом фактически любого электронного устройства, что мы перестали задумываться о том, как он на самом деле функционирует. Производитель SPAUN, на оборот, много размышлял над этим и пришёл к замечательному выводу. Кевин Спаун (Kevin Spaun) - управляющий директор SPAUN, одного из самых известных изготовителей качественных мультипереключателей и других принадлежностей для распределения спутникового сигнала. Он рассказал нам обо всём этом.





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В самом югозападном уголке Германии, прямо на Констанцском озере (Lake Constance), расположен маленький город Синген (Singen), в котором SPAUN был размещён больше чем 40 лет. Весь технологический опыт, извлечённый за десятилетия, всегда вкладывается в создание грандиозных продуктов, делая их ещё лучше. Сегодня, фирменный знак SPAUN - синоним для высококачественных и инновационных продуктов в спутниковом бизнесе и за его пределами. Это привело к тому, что SPAUN начал предлагать полную 5-летнюю гарантию для его продуктов несколько лет тому назад. На протяжении всех этих лет, основатель SPAUN Фридрих Спаун (Friedrich Spaun) и его сын Кевин, который тем временем вступил во владение управлением компанией, подметили нечто. „Всякий раз, когда устройство отправляли для ремонта, один компонент был дефектным, в большинстве случаев это был блок питания устройства“, отмечает Кевин Спаун (Kevin Spaun). „И, между прочим, этот диагноз верен почти для всех электронных устройств“. Электролитические конденсаторы в этих устройствах обычно виноваты в отказах. „На рынке присутствует много различных электролитических конденсаторов с различной продолжительностью жизни продукта. Менее дорогостоящие модели разработаны для полного жизненного цикла - 3 000 операционных часов, в то время как

высокотехнологичные типы могут быть работоспособными на протяжении 10 000 часов и более. “Очевидно что, электролитические конденсаторы внезапно не прекращают работать после 3 000 или 10 000 часов – такая жизнеспособность продукта характерна среднему количеству часов наработки при максимальной рабочей температуре и максимальном потреблении энергии. Поскольку эти чрезвычайные обстоятельства имеют место только в исключительных случаях, обычно конденсаторы намного превышают эти номинальные часы функционирования. Как большинство изготовителей электронных устройств SPAUN, привык к снабжению его модулями электропитания от поставщиков, имеющих отношение к третьей стороне. В конце концов, компании производящие мультипереключатели не должны сосредотачиваться на модулях электропитания, не так ли? Да, но для Вас руководящий принцип - качество, и Вы обеспечиваете 5-летнюю расширенную гарантию на все Ваши продукты, Ваше внимание должно находиться на каждом отдельном компоненте. “Сначала мы потребовали от нашего поставщика использовать электролитические конденсаторы только наивысшего качества” напоминает Кевин Спаун (Kevin Spaun). Но, в итоге наступил тот день, когда это требование недостоаточно гарантировало качество востребованное SPAUN. В дополнение к качеству

и надёжности, высококачественный изготовитель также должен обращать внимание на эффективность потребления энергии, и таким образом SPAUN, наконец, осознал, что его технические требования для изготовителей модулей электропитания, имеющих отношение к третьей стороне, стали настолько сложными и взыскательными, что имело смысл рассмотреть вопрос внутреннего производства этих компонентов. „Независимые изготовители всегда должны соблюдать баланс между составляющей стоимости и составляющей качества, чтобы предложить конкурентоспособную договорённую цену. С другой стороны, если мы, производим всё самостоятельно, мы всецело имеем технологию под нашим собственным контролем и в состоянии подобрать каждый индивидуальный компонент так, чтобы конечный продукт удовлетворял наши строгие требования. Это единственный способ достигнуть ожидаемого нами качества“. Как только это решение было принято, все произошло очень быстро: была основана новая компания POWER SPAUN GmbH, и превосходно оснащён новый цех производства. „Мы инвестировали приблизительно 2 миллиона ЕВРО“ объясняет Кевин Спаун (Kevin Spaun), обрисовывая нам новые производственные услуги. Новая компания существовала и управлялась на протяжении двух лет.

„Мы в состоянии произвести прибли-

■ Демонстрационная витрина в зоне приёма посетителей показывает диапазон продуктов SPAUN. Компания производит не только блоки питания с выключателями потребляемой энергии, но также и все виды мультипереключателей



так же как превосходные переключатели протоколов взаимодействия с приёмниками (DiSEqC) и компоненты для распределения сигнала, включая, оптоволоконные передатчики и приёмники.



зительно 500.000 модулей блоков питания в год" продолжает он. „С таким количеством модулей мы не только в состоянии оборудовать все наши собственные продукты, но также и снабжать компании имеющие отношение к третьей стороне". Фактически, больше чем 10 % ежегодного производства проданы другим компаниям, которые стали готовыми к осознанию, что первоначально более дорогостоящие модули электропитания наивысшего качества с переключаемым режимом более чем восполняют компенсацию продлённым сроком службы, в конечном счёте. Детальные рассуждения Кевина Спауна (Kevin Spaun) следующие: „Качество всегда побеждает. Даже если это может сначала звучать разумно с финансовой точки зрения простым использованием более дешёвых компонентов, эта выгода в стоимости почти исчезает, когда компоненты потерпят неудачу после какого-то непродолжительного периода времени. Выбор высокого качества с самого начала, оказывается, намного более мудрым решением". Это имеет особое значение для продуктов, которые обладают долгосрочным периодом эксплуатации, длящимся многие годы. "Мы поставляем свои продукты для систем распределения сигнала в гостиницах или больших жилых зданий", продолжает он. "Некоторые из этих помещений имеют несколько тысяч пользователей, и электронное оборудование должно работать надёжно без отказа в течение многих лет или даже десятилетий. "Компания, такая как SPAUN может достигнуть той качественной цели только с продуктами высшего качества. Если модули электропитания, требуемые для такой цели не доступны на рынке, то тогда компания SPAUN должна принять решение о внутреннем производстве. Все же, качество не единственный признак, который принудил SPAUN наладить внутреннее производство блоков питания. "Наши модули электропитания с режимом переключения потребляют до 25% меньше энергии, чем обычные компоненты". Одна вещь, которая не должна быть недооценённой в этом отношении тот факт, что большинство продуктов SPAUN подключено всё время и таким образом постоянно потребляет электроэнергию. В конце концов, мультипереключатель или усилитель должен функционировать и быть постоянно доступным. Само собой разумеется, что мультипереключатели SPAUN были оборудованы энергосберегающим дежурным режимом в прошедшие годы, но дополнительная экономия энергии близкая к 30 % огромная выгода даже при таком сценарии. "Весьма неподдельно, наши новые модули электропитания окупают сами себя", заявляет Кевин Спаун (Kevin Spaun) и объясняет математику. Счёт пользователей за электричество будет уменьшаться каждый месяц "... кроме того, все наши модули электропитания разработаны, чтобы использовать любое напряжение между 100 и 240 Вольтами, что делает их действительно универсальными", добавляет он с намёком на потенциал продуктов SPAUN также для компаний за пределами Европы. "В настоящее время POWER SPAUN нанимает трёх высокоспециализированных инженеров, и в ближайшем будущем мы начнём продуктивную линейку блоков импульсных источников питания для того, чтобы обеспечить энергией светодиоды (LED).



Professional Producer of Digital TV Tuners for PC!

PCIe DVB-S2 Dual Tuner card (TBS6981)

1. Dual DVB-S2/S Transponders Receiving simultaneously
2. Windows XP/Vista/7 Compatible. Windows 7 Media Center, DVBDream, DVBCViewer, DVBlInk, ProgDVB, Skynet, TSreader supported.
3. Linux driver for all kernels. MythTV, VDR, XBMC, supported.
4. Low profile size.



DVB S2



PCIe DVB-S2 TV Tuner card (TBS 6920)

1. DVB-S2/S Transponders Receiving.
2. Low profile size.



USB DVB-S2 BOX (TBS QBOX S2)

1. DVB-S2/S Transponders Receiving.
2. DVB-S2/S DIRECTV 8PSK QPSK demodulator.
3. USB 2.0 interface



PCIe DVB-S2 TV Tuner card (TBS 6925)

1. CCM, VCM, ACM and Multi Input Stream mode supported.
2. 8PSK/QPSK/16APSK/32APSK mode.



USB DVB-S2 CI BOX (TBS 5981)

1. DVB-S2/S Transponders Receiving.
2. CI supported.
3. USB 2.0 interface

DVB C



USB DVB-C stick

1. DVB-C Frequencies Receiving.
2. 16,32,64,128 and 256 QAM supported.
3. USB 2.0 interface.



USB DVB-C CI BOX

1. DVB-C Frequencies Receiving.
2. 16,32,64,128 and 256 QAM supported.
3. CI supported.
4. USB 2.0 interface

DVB T2



PCIe DVB-T2/T/C TV Tuner card

1. Receiving system: DVB-T2/DVB-T/DVB-C.
2. Low profile size.

Мы ожидаем, что это будет существенным рынком роста в будущем. Естественно, мы также в состоянии использовать наш обширный опыт для того, чтобы разработать и также производить определённые для клиента решения". Новая возможность блоков питания включать модули не только потребляет меньше энергии, но также, и более эффективно использует энергию, чем прежде. "Мы оцениваем фактор эффективности больше чем 90%," не без гордости заявляет Кевин Спаун (Kevin Spaun). Наконец, Кевин Спаун (Kevin Spaun) проливает свет на очень выгодную стратегию для того, чтобы продлить срок службы блоков электропитания модулей SPAUN. "Мы вообще проектируем блоки питания для наших продуктов так, чтобы они управлялись приблизительно при 60%-ой производительности". Пребывание ниже такого порога резко уменьшает риск отказа во время постоянного использования. Производитель SPAUN изучил все хитрости торговли за четыре десятилетия как первосортный изготовитель высококачественных продуктов. Решение также самостоятельно производить внутренние модули электропитания является дополнительным шагом в полной оптимизации производственной цепочки и в дальнейшем усилении статуса высококачественной компании и надёжности её продуктов.

Это больше похоже, на то, что лидирует основное умозаключение, сфокусированное на качестве, которое приводит к долгосрочному успеху и способствует тому, чтобы познать то, что фокус, сосредотачиваемый на цене, выглядит, так что кажется, что складывается такое предубеждение, настолько распространённое в наши дни, не всегда путь к долговременному успеху.

Импульсные источники питания SPAUN

Обозначения	номинального напряжения	питания
SNT 4019	9 W	13 V
SNT 4025	17 W	13 V, 19 V
SNT 4040	25 W	13 V, 19 V (перестраиваемое)
SNT 4042	55 W	5 V, 13 V, 19 V
SNT 4044	110 W	13 V, 19 V

Примечание: у всех типов фактор эффективности приблизительно 90%!

Как устроены импульсные источники питания?

Импульсный источник питания (SMPS) преобразовывает переменное напряжение (AC 110-240 Вольт, 50/60Гц) в пониженное постоянное напряжение (DC), требующееся электронным устройствам всех видов (телевизорам, спутниковым приёмникам, ноутбукам, мультипереключателям и т.д.). Постоянное напряжение (DC) стабилизировано и не изменяется, если мы более или менее увеличиваем потребление от импульсного источника питания (SMPS). Старые типы блоков электропитания (так называемые "линейные блоки электропитания") требуют громоздкого и тяжёлого трансформатора, который преобразовывает высокое переменное напряжение (AC) в низкое переменное напряжение (AC) настолько хорошо, насколько справляется с этим транзистор регулирования с теплоотводом, чтобы стабилизировать постоянное напряжение (DC). Регулирование напряжения постоянного тока (DC) при линейном способе приводит к существенным потерям мощности, что приводит к нежелательной высокой температуре. Следовательно, требуется теплоотвод. Импульсный источник питания (SMPS) сначала преобразовывает напряжение сети переменного напряжения (AC) в постоянное напряжение (DC) и затем с высокой частотой (от 50 КГц до 1 МГц), преобразовывает его в прямоугольную форму волны. Обычно трансформатор все ещё необходим, но на сей раз он намного меньше потому что, чем выше частота, тем меньший трансформатор, который требуется для взаимодействия с частотой. Транзистор регулирования с громадным теплоотводом больше не нужен, потому что напряжение отрегулировано, изменяя отношение при открытом/закрытом состоянии. Поэтому импульсный источник питания (SMPS) намного более компактен и лёгок, и также имеет более низкое энергопотребление. Это - его главные преимущества. Он также намного сложнее традиционного линейного блока электропитания (PSU). Несмотря на это, импульсные источники питания (SMPS) на сегодняшний день используются почти во всём электронном оборудовании.

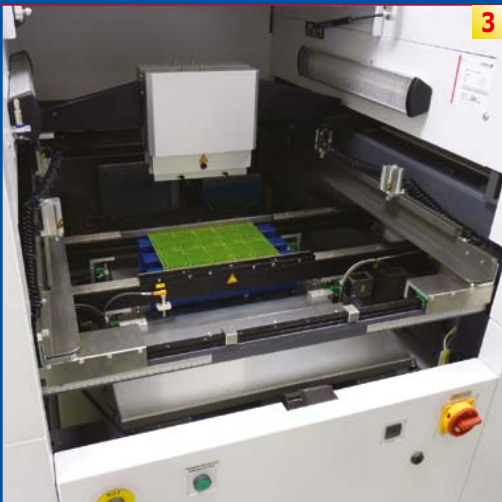
Процесс производства модулей блоков питания SPAUN

1. Эти рулоны содержат компоненты поверхностного монтажа (SMD). Каждый рулон хранит 5.000 компонентов.

2. Для спаивания монтажных плат применяются пасты.

3. Машина вставки для поверхностного монтажа (SMD) автоматически помещает компоненты поверхностного монтажа (SMD) в соответствующее положение на монтажной плате. Это изображение показывает 10 монтажных плат всё ещё совмещённых друг с другом для 40/25 модулей электропитания. Это означает, что десять блоков электропитания произведены одновременно...





4. ... и затем они помещены в печь для завершающего спаивания.

5. Большие компоненты добавлены на монтажную плату вручную. Это изображение показывает ядро каждого модуля электропитания: трансформатор.

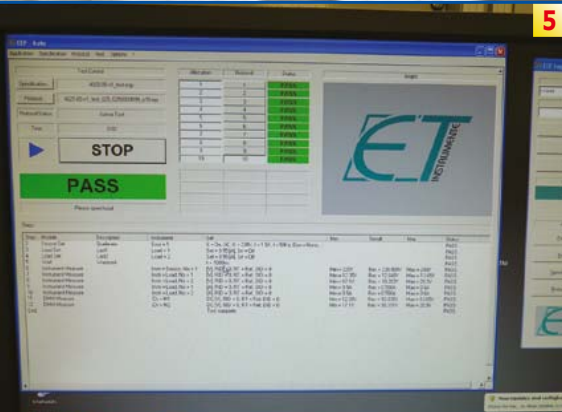
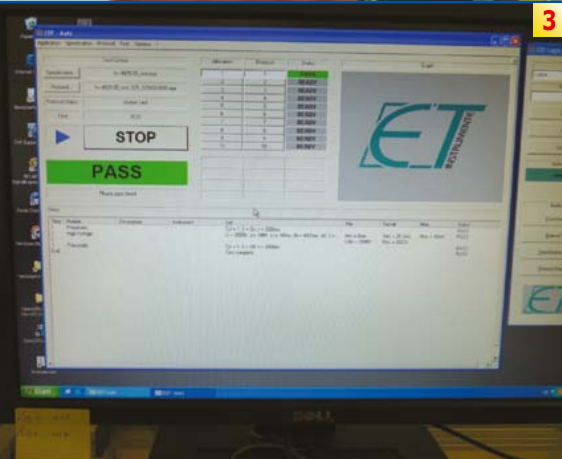
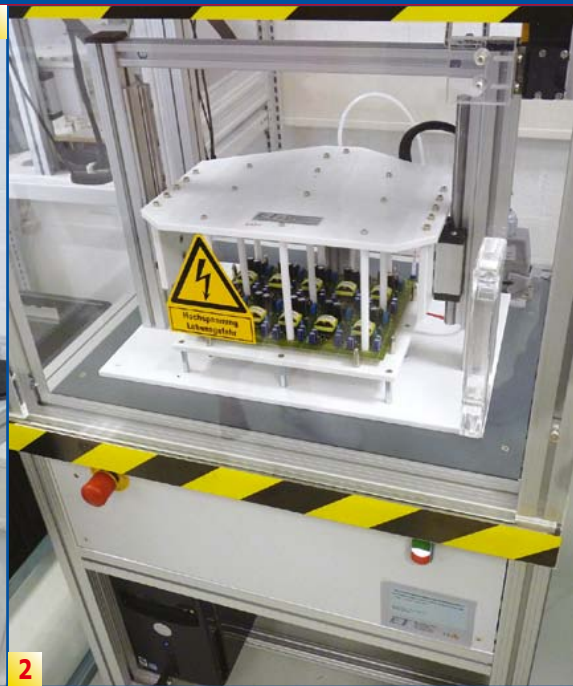
6. Качество используемых электролитических конденсаторов определяет срок службы каждого модуля электропитания. POWER SPAUN использует только конденсаторы высшего качества, чтобы быть в состоянии гарантировать жизнь сверхсрочной службы – в то же самое время это также резко уменьшает преждевременные отказы.

7. Большие компоненты собраны на этой сборочной линии. Начальник производства Корнелия Каннвишер (Kornelia Kannwischer) (слева), контролирует ее коллег и выбирает тип модулей электропитания, которые производятся.

8. Как только все компоненты собраны, монтажные платы помещены в это спаивающее волно-образующее устройство, которое спаивает все компоненты вместе. Технический контролёр Клаудио Саура (Claudio Sauga) подтверждает, что устройство для спаивания работает безупречно.

9. Готово: законченные модули электропитания хранятся, пока они не потребуются для мультисwitchа или другого продукта. Устройства, заказанные третьей стороной, теми компаниями, которые желают извлечь выгоду из качества SPAUN, отгружаются по их назначению.





Проверка качества блока питания SPAUN

1. Все продукты SPAUN индивидуально испытаны и проверены на технические сбои, прежде чем покинут производственные помещения. Каждый модуль блока питания также получает индивидуальную этикетку со штриховым кодом. После проведения контроля, штриховой код первого модуля электропитания оставляется в верхнем углу для последующего просмотра. Штриховой код номера девяти остающихся компонентов может быть составлен в логической последовательности (предыдущий модуль плюс 1).

2. Все десять модулей электропитания проверены один за другим в этом испытательном устройстве с высоким напряжением. Больше чем 3000 Вольт используются, чтобы удостовериться, что блок электропитания не будет причиной отказа во время молнии, например.

3. Дисплей указывает, пройден или нет тест на высокое напряжение.

4. Затем, монтажная плата помещена в устройство измерения, которое обследует все функции. Каждый модуль блока питания получает фактический ток для того, чтобы проверить выходную мощность. Зеленый светодиод (другой модуль питания в нижнем ряду на этом изображении) указывает, какой модуль блока питания является в настоящее время активным.

5. Ведущая регистрация измерений показывает, что все модули работают соответственно к спецификациям. Регистрация хранится в центре обработки данных SPAUN, и может быть восстановлена для каждого индивидуального блока электропитания за десятилетия, если потребуется.

6. Как только всё тестирование и измерения закончены, монтажные платы рассечены, чтобы быть установленными в десять индивидуальных модулей блоков питания. Все служащие, работающие на производственном этапе POWER SPAUN GmbH должны носить антистатические ботинки.

7. Кроме того, пол уложен антистатическим материалом, и предупредительный знак при входе убеждает каждого посетителя, выполнять специальное предостережение в этой зоне.

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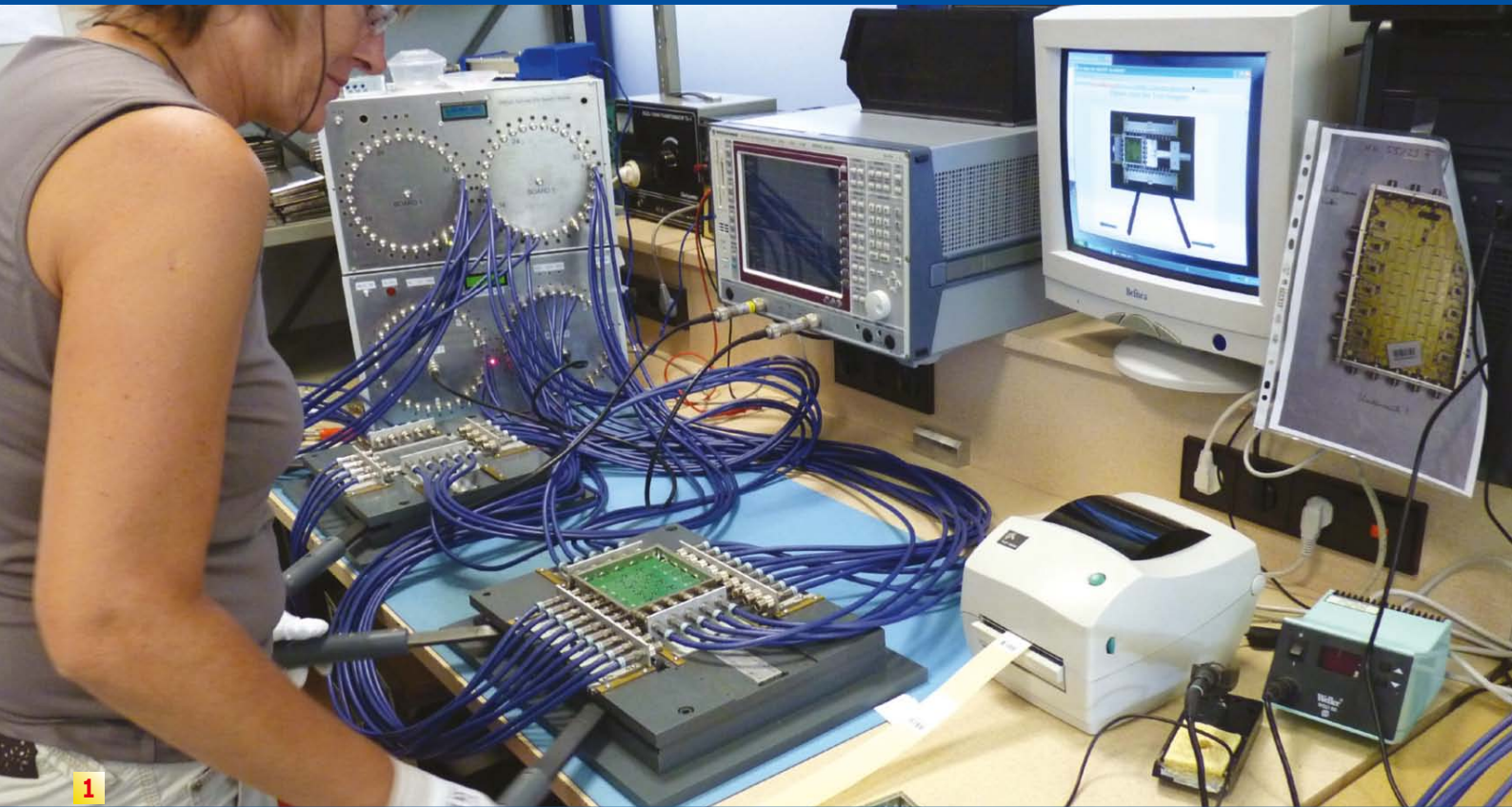
- DVB - T TEST
- DVB - S TEST
- FM TEST
- DAB TEST
- UNICABLE
- CAMERA TEST
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1



2



3



4

Блоки питания SPAUN для мультипереключателей SPAUN

1. Выполняется функциональный дополнительный контроль прежде, чем блок электропитания SPAUN будет объединён с мультипереключателем SPAUN. Специализированная запись в журнале сопровождает каждую проверку.
2. Только теперь блок электропитания SPAUN достигает своего заключительного предназначения в мультипереключателе SPAUN. Эта служащая припаявает три контакта разъёма (0, 13 и 18 Вольт) блока электропитания.
3. Изготовление не закончено, пока не преодолён заключительный электрический тест: полностью собранное устройство, со всеми функциями, уже проверенными ранее, подключено к устройству тестирования на 3000 Вольт ещё раз. Только если эта последняя проверка преодолена, SPAUN пропустит продукт для продажи.

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The AZBox Champions from Holland

It really helps to not only have a good product but to also have a very ambitious sales team. A perfect example of this is the company Smart Innovations in northeastern Holland. The three owners of the company are very much involved with its operation and have helped make the AZBox receivers one of the top selling brands not only in The Netherlands but also in Belgium and Luxemburg. For these three countries, Smart Innovations has taken over distribution of the AZBox.



Zutphen
(Amsterdam)



AZBOX

■ At the moment, Smart Innovations still resides in one of the apartments in this house in the town of Zutphen in northeastern Holland. The move to a new office is coming very soon.

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AZBOX



The three-man company currently resides in a residential area in the small town of Zutphen, not too far from Apeldoorn and roughly 100 km from Amsterdam. At the moment the warehouse is in the founder's garage but this won't be the case much longer. The company will shortly move to a larger building which will include a warehouse.

We found out how it all started from Herbert Verheijden; he's really the founder of Smart Innovations. "I started the company in 2005", he explains to us. He's been involved with satellite reception since 1995. "My first receiver was the PACE 500 G4. Back then it was one of the first digital receivers available", he remembers. His first satellite dish was 80cm in diameter.

He is a software engineer by trade and thus was especially interested in digital signal modulation technology. Via the Internet it didn't take long for him to find people with similar interests with which he could exchange ideas. "We still use the www.sat4all.com Satellite Bulletin Board today to communicate with our customers", explains Herbert Verheijden.

He met André Pelgrim

through this satellite board and found out that he didn't live all too far away from him and was therefore able to meet up with him in person on many occasions.

Over the years the two of them worked closer and closer together. The third member of the team is Rinus Lindoorn. He's the founder and chairman of the 'De Transponder' satellite club which provides extensive information for satellite enthusiasts via its web site www.detransponder.nl.

In 2007 the three of them became equal partners in Smart Innovations with each owning exactly one third of the company. Their jobs are all very clearly defined: Herbert Verheijden is responsible for the company's vision, Andre Pelgrim handles the technical side of operations while Rinus Lindoorn watches over the small company's finances. All three of them have a dedication to satellite technology and above all the AZBox.

Herbert Verheijden explains how the connection to the AZBox came about: "We met Hugo Condessa, the head of

AZBox, at ANGA 2005 and learned about his products. We recognized right away that his boxes were ideal for our market because of its quality and price." The Smart Innovations team immediately began translating the receiver manuals, receiver menus and promotional materials into Dutch. "We also started our own support forum at www.azbox.nl", adds Herbert Verheijden.

The start of the company didn't go all too smoothly at first: "In our first year 2007 we managed to sell only 500 receivers and our second year 2008 wasn't much better", explains Rinus Lindoorn, responsible for the financial side of things. The three agree that the main reason for this weak beginning was that AZBox only offered SD receivers at the time.

In 2009 however, sales increased dramatically: "In 2009 we sold 1400 high definition receivers and in 2010 we expect that number to climb to 3000", Rinus Lindoorn says confidently. The increase in sales is also due to some other factors. Rinus Lindoorn regularly visits the dealers in Holland, Belgium and Luxembourg to highlight the advantages of the AZBox:

■ The smart idea from Smart Innovations: they are working on a box to convert Infrared to Bluetooth. This would make it possible to control the AZBox and a state-of-the-art TV system from a single remote control.

Installation

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■ Herbert Verheijden is the founder of Smart Innovations.



■ Rinus Lindoorn is responsible for the financial side of Smart Innovations.

■ André Pelgrim is responsible for the technical side of things.



antennas with a total of 31 LNBS plus one LNB on a rotary dish.

As it turned out, the AZBox had a software bug in its DiSEqC control that allowed the receiver to access 30 LNBS without any problems, just not the last 2 LNBS. They would never have found out about unique problems such as this if they didn't make themselves available to answer everyone's questions.

At the moment Smart Innovations wholesale dealer network is made up of 25 active dealers in The Netherlands, five in Belgium and one in Luxembourg. We want to know what sales are like for the individual AZBox receiver models; Rinus Lindoorn looks at his books and says: "The AZBox Premium Plus makes up 50% of our sales, the Premium model accounts for 30% while the Elite box makes up for 20%." Those are all high definition models.

The actual tuner selection is rather interesting: "60% of AZBox receivers are delivered with satellite tuners, 30% come with combination satellite and cable tuners and the remaining 10% are strictly cable boxes."

We noticed that terrestrial tuners are not in the mix at all. Rinus Lindoorn confirms, "There's hardly any demand for terrestrial reception in Holland." When the subject turned to the future, André Pelgrim finally had the opportunity to present a surprisingly new idea: "The AZBox is the only receiver with a real 1080-line picture and therefore is the perfect match for top-of-the-line TVs."

What conclusion can be drawn from this? "One of the absolute best brand names available is, for example, Bang & Olufsen. But when you check out the remote control, you find out that it operates via Bluetooth while the AZBox works with Infrared." The trio has thus come up with an interesting idea: and that would be to work with a supplier of converters on a box that could convert Infrared to Bluetooth. "In this way we're trying to make the AZBox recognizable with high-end TVs."

Smart Innovations is making quite a name for itself. All three business partners are satellite enthusiasts who are intimately familiar with the AZBox's every detail. They keep coming up with new ideas to make the AZBox even more popular. With such a dedicated sales team AZBox should continue to move upward in the marketplace!

"I visit roughly 30 firms every year", he explains.

The other two colleagues don't sit idly around either; they are actively promoting the AZBox in satellite forums as well as in their own support forum. "We quickly answer every question we receive", comments Herbert Verheijden adding that the customer is never alone.

The three of them actually enjoy answering questions. "We are regularly surprised ourselves! For example, recently a customer told us that he has 32 LNBS but could only access 30 of them." A satellite viewer with 32 LNBS? That was new to them. Sure enough, satellite enthusiast Gerard van den Braak in Eindhoven has two multifocus



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EEBC 2010

www.eebc.net.ua

EEBC show will take place at the exhibition center - KyivExpoPlaza. The exhibition center brings to bear ten years of experience in the Ukrainian exhibition business and the cutting-edge achievements of global construction and engineering technologies. The center is ideally suited for holding international trade shows and has a certificate of the Global Association of the Exhibition Industry (UFI) in the "Exhibition centers" category.



The topics of EEBC 2010 exhibition:

- Digital terrestrial broadcasting
- Cable, satellite, mobile and Internet television
- HDTV
- Satellite communication and broadcasting systems
- Cinema and video production
- Content

How to get there

KyivExpoPlaza is located in the Western part of Kyiv, not far from the city centre, near to Nyvky metro station (1.5 km from it) and near to one of the city's main artery roads, Prospect Peremohy. The exhibition centre is convenient to get to from any part of the city.

By car:

15 minutes from the city centre; 30 minutes from Zhuliany Airport; 60 minutes from Boryspil Airport

By public transport:

10 minutes by metro from the Central Railway Station
4 minutes by shuttle-bus from Nyvky metro station
15 minutes on foot from Nyvky metro station

CONFERENCES

DURING THE EXHIBITION EEBC 2010

20 October

- International conference «Telecommunication and broadband networks»
- International conference «Corporate and Enterprise communication systems: new opportunities and practical deployments». Endorsed by UMTS Forum/Day 1.
- DIGITOLGY press courses. Organizer: Industrial Television Committee/Day 1.
- Conference organized by Internet Association of Ukraine

21 October

- International conference «Satellite communication and broadcast technologies»
- International conference «Corporate and Enterprise communication systems: new opportunities and practical deployments»/ Endorsed by UMTS Forum/Day 2
- Forum of cable TV operators of Ukraine
- DIGITOLGY press courses. Organizer: Industrial Television Committee/Day 2
- Round table organized by Association Wireless Ukraine

22 October

- International conference «Advanced Broadcasting Technologies. HDTV, 3D TV»
- International conference «Information technologies as enabler for the effective implementation of business strategy at the enterprises and businesses»

International conference

«SATELLITE COMMUNICATION AND BROADCAST TECHNOLOGIES»

within the context of the program "Ukraine on Air"

Date: 21 October 2010, Venue: exhibition centre "KievExpoPlaza", Pavilion 1; conference-hall 2

10:30-11:00 Registration of the participants

Conference opening. Welcome address by the Organizers

Session 1

CURRENT SITUATION AND DEVELOPMENT TRENDS OF SATELLITE COMMUNICATION MARKET

- Plans and prospects of global satellite fleets in Ukrainian market
- Digital broadcast development: offers from leading suppliers for Ukrainian market
- Technology convergence and evolution of the standards
- Multimedia content delivery to the terrestrial digital broadcasting networks
- Coffee break

Session 2 CAPACITIES AND POTENTIAL OF NATIONAL SPACE INDUSTRY

- National Satellite Communication System: from project to launch?
- Legislative provision for NSCS effective functioning
- Standardization and certification
- Coffee break

Session 3

ADVANCED SERVICES IN SATELLITE BROADCAST AND COMMUNICATIONS NETWORKS

- Development prospects of direct broadcast satellite in Ukraine
- Current offerings from DTH platforms
- Multimedia services and applications in satellite networks
- Summary

Invited participants: satellite operators, DTH platforms, fixed telco operators, mobile communication operators, ISPs, broadcasters, operators of terrestrial, cable and satellite networks, technology and solution providers, system integrators, state & regulatory bodies involved in the development of digital technologies, scientific and research institutions

Conference languages: Ukrainian, Russian, English. Simultaneous translation is provided

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CLARK
EURO 1080
SATBEAMS

BEST DIGITAL TV COMPANIES in EUROPE

SMARTINNOVATIONS

Satellite Distributor, Netherlands

COMPANY REPORT | Satellite Distributor SMART INNOVATIONS, The Netherlands

The AZBox Champions from Holland

It really helps to not only have a good product but to also have a very ambitious sales team. A perfect example of this is the company Smart Innovations in northwestern Holland. The three owners of the company are very much involved with its operation and have helped make the AZBox receivers one of the top selling brands not only in The Netherlands but also in Belgium and Luxembourg. For these three countries, Smart Innovations has taken over distribution of the AZBox.



The receiver connects to a standard satellite dish and is controlled via the remote control. It is a very compact and portable device, making it ideal for use in motorhomes and other vehicles. The receiver is also compatible with a range of satellite providers, including Sky, Hot Bird, and Astra. The AZBox is a very popular choice for satellite TV users in Europe.

www.TELE-satellite.com/TELE-satellite-1011/eng/smartinnovations.pdf

GLOBALINVACOM

Fibre Optic Products, UK



www.globalinvacom.com

PRODUCT NEWS | Fibre Optic Products

Globalinvacom Expands Product Palette

The British company Globalinvacom has expanded its optical LAN product palette. TELE-satellite in the 04-05/2009 issue introduced the new series of optical LANs, which are now available for office networks and an expansion of the industrial optical LAN systems in which the transmission of both subscriber and terrestrial signals on two optical frequency channels are carried on one optical cable.



Globalinvacom has introduced a new range of optical LAN products, including a range of optical LANs for office networks and a range of optical LANs for industrial networks. The new products are designed to provide high-speed, reliable data transmission over long distances. Globalinvacom is a leading provider of fibre optic products in the UK and Europe.

www.TELE-satellite.com/TELE-satellite-1009/eng/globalinvacom.pdf
www.TELE-satellite.com/TELE-satellite-1005/eng/globalinvacom.pdf
www.TELE-satellite.com/TELE-satellite-0909/eng/globalinvacom.pdf
www.TELE-satellite.com/TELE-satellite-0805/eng/globalinvacom.pdf

SATBEAMS

Software Programming, Belgium



www.satbeams.com

SOFTWARE REPORT | Satellite Footprints

Satbeams A Website for Professionals

Alexander Deruyts has set some lofty goals for himself. He is the founder and operator of the satbeams.com website. The main purpose of which is to reach the professionals. That is a rather ambitious goal as he wanted to find out from his personal how he intends to reach it. We met up with him in Brussels, Belgium, the city he calls home.



Alexander Deruyts is a professional satellite footprint expert. He has developed the satbeams.com website, which provides satellite footprint data for various satellite providers. The website is a valuable resource for satellite TV users and professionals alike. Alexander is based in Brussels, Belgium, and has a passion for satellite technology.

www.TELE-satellite.com/TELE-satellite-1011/eng/satbeams.pdf

EESHOP

Satellite Shop, Netherlands

COMPANY REPORT | Satellite Shop in the Netherlands

EESHOP.NL

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www.TELE-satellite.com/TELE-satellite-1005/eng/eeshop.pdf

WORLDWIDE SATELLITE

Satellite Shop, Netherlands

COMPANY REPORT | Satellite Shop in The Netherlands

Worldwide Satellite in Northern Holland

The Dutch is known for their love of RVs and especially for their satellite TV systems. In the Netherlands, there are many satellite TV systems available, but the most popular is the Sky system. This is because of the high quality of the service and the fact that it is available in all parts of the country.

Worldwide Satellite is a leading provider of satellite TV systems in the Netherlands. They offer a wide range of services, including installation, maintenance, and repair. They also offer a range of satellite TV systems, including Sky, Hot Bird, and Astra.

Worldwide Satellite is a family-run business with over 20 years of experience. They have a reputation for excellent customer service and high quality work. They are proud to be a member of the TELE-satellite network.

Worldwide Satellite is located in Northern Holland, near the city of Groningen. They have a large showroom and a workshop. They also offer a mobile service, so they can visit your home or your RV.

Worldwide Satellite is a member of the TELE-satellite network. This means that they can offer you the best prices and the best service. They are also able to offer you a range of financing options, so you can get your satellite TV system without any hassle.

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www.TELE-satellite.com/TELE-satellite-0903/eng/worldwidesatellite.pdf

SEATEL

Maritime 3-Axis Dish Manufacture, UK



www.cobham.com

COMPANY REPORT | Maritime 3-Axis Dish Manufacturer

Sea-Tel Alexander Wiese

Sea-Tel Alexander Wiese is a leading manufacturer of maritime 3-axis satellite dishes. They have a reputation for high quality and reliability. Their dishes are used by a wide range of maritime users, including cruise ships, ferries, and fishing vessels.

Sea-Tel Alexander Wiese is located in the UK. They have a large manufacturing facility and a sales office. They also offer a range of services, including installation, maintenance, and repair.

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www.TELE-satellite.com/TELE-satellite-0803/eng/seatel.pdf

CLARK

Distributor, Netherlands

COMPANY REPORT | Distributor in The Netherlands

Clark Electronics 70 Years Old and Full of Ideas

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www.TELE-satellite.com/TELE-satellite-0811/eng/clark.pdf

HORIZON

Manufacturer of Measuring Instruments, UK



www.horizonhge.com

COMPANY REPORT | Manufacturer of Measuring Instruments HORIZON

The Queen and Horizon

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www.TELE-satellite.com/TELE-satellite-0801/eng/horizon.pdf

www.TELE-satellite.com/TELE-satellite-0701/eng/horizon.pdf

DISHPOINTER

Software Programming, UK



www.dishpointer.com

SATELLITE SOFTWARE | Dish Alignment

DishPointer.com

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www.TELE-satellite.com/TELE-satellite-0803/eng/dishpointer.pdf

EURO 1080

Satellite Channel, Belgium

COMPANY REPORT | HDV Broadcaster Euro1080

1080 Lines Alexander Wiese

Euro1080 is a leading provider of satellite TV services in Belgium. They offer a range of services, including installation, maintenance, and repair. Their services are used by a wide range of users, including homeowners, businesses, and schools.

Euro1080 is located in Belgium. They have a large service team and a sales office. They also offer a range of services, including installation, maintenance, and repair.

Euro1080 is a member of the TELE-satellite network. This means that they can offer you the best prices and the best service. They are also able to offer you a range of financing options, so you can get your satellite TV system without any hassle.

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www.TELE-satellite.com/TELE-satellite-0705/eng/euro1080.pdf



BEST DIGITAL TV COMPANIES in EUROPE

DOEBIS
 Satellite Wholesaler, Germany www.doebis.de

COMPANY REPORT Satellite Wholesaler DOEBIS, Germany

DOEBIS is Expanding

Exactly three years ago TELE-satellite published a report on DOEBIS, a satellite wholesaler in Germany. We thought it was a good time to ask DOEBIS how they withstood the all-around crisis. We received a rather surprising answer: "We're expanding!" says Rainer Weising, Operations Manager at DOEBIS. The company used the economic crisis that took hold in 2008 and instead of scaling back they opted for a counter strategy: they used the opportunity to invest and primarily expanded their sales force.

www.TELE-satellite.com/TELE-satellite-1011/eng/doebis.pdf

SMARTWI
 Wireless Card Reader Producer, Denmark www.smartwi.net

COMPANY REPORT Wireless Card Reader Producer Smartwi

SmartWi to Conquer Provider Market

Readers of this magazine have been familiar with wireless card reader manufacturer Smartwi for years. In TELE-satellite issue 06-03/2007 we published the first report on this Danish company which has come up with a ground idea: How about transmitting data from a pay-TV provider's subscription card to a second card in the same household? All of a sudden your viewing pleasure can be extended from the living room all the way to the bedroom, then or any other room at your place. Pay-TV wherever you like – and a smart idea for those who observe a proper name too: smart Wi, or SmartWi as short.

www.TELE-satellite.com/TELE-satellite-1011/eng/smartwi.pdf
www.TELE-satellite.com/TELE-satellite-0709/eng/smartwi.pdf

SPAUN POWER
 Power Supply Manufacturer, Germany www.spaun.com

COMPANY REPORT Power Supply Unit Manufacturer

Power Supply Units Made by SPAUN – guaranteed!

www.TELE-satellite.com/TELE-satellite-1011/eng/spaun.pdf

GOLDEN MEDIA
 Manufacturer and Distributor, Germany www.cynextra.com

COMPANY REPORT Manufacturer and Distributor Golden Media, Germany

New On The Market: Golden Media

www.TELE-satellite.com/TELE-satellite-1009/eng/goldenmedia.pdf

MEDIA BROADCAST

Broadcasting Services, Germany

STATION REPORT Earth Station (Usingen, Germany)

Satellite Reception with a 19 Metre Dish

30 Years of Satellite Reception and Uplink in Usingen near Frankfurt

In an age of ever decreasing antenna sizes and only very few satellite Dishes using large dishes it's a welcome change to explore really huge antennas elsewhere. These can only be found in professional settings, of course, and in particular where TV channels are beamed up to a satellite or satellite earth stations. One of Europe's top 5 stations is located close to the small town of Usingen, not far from Frankfurt in Germany.

TELE-satellite World www.tele-satellite.com

Country	Station Name	Frequency	Power	Service
Germany	Usingen	11.035 GHz	100 W	TV, Data
Germany	Usingen	11.035 GHz	100 W	TV, Data
Germany	Usingen	11.035 GHz	100 W	TV, Data

www.TELE-satellite.com/TELE-satellite-1009/eng/mediabroadcast.pdf

SPAUN

High Quality Accessory Manufacturer, Germany



www.spaun.com

COMPANY REPORT High Quality Accessory Manufacturer

Spaun at 40 years

Moving into the new decade with many new products

Alexander Weiss

With virtually 40 years on the globe, Spaun doesn't consider its 40th anniversary as a milestone. It's just another year in the long history of the company. The company's success is based on its high quality products and its commitment to innovation. In 2011, the company has introduced a new range of products, including the new SPAUN 1000, which is a significant step forward in the development of satellite accessories. The company is also expanding its production facilities to meet the growing demand for its products. This expansion is a testament to the company's long-standing reputation for quality and reliability. The new products are designed to provide users with a more convenient and efficient way to use their satellite equipment. The company's commitment to research and development is evident in the range of new products it has introduced. These products are designed to meet the needs of a wide range of users, from hobbyists to professional operators. The company's success is a result of its dedication to quality and its commitment to innovation. The company's products are known for their reliability and performance, and this reputation has helped it to establish a strong presence in the market. The company's commitment to customer service is also a key factor in its success. The company's products are designed to be easy to use and to provide a high level of performance. The company's commitment to innovation is also a key factor in its success. The company's products are designed to meet the needs of a wide range of users, from hobbyists to professional operators. The company's success is a result of its dedication to quality and its commitment to innovation. The company's products are known for their reliability and performance, and this reputation has helped it to establish a strong presence in the market. The company's commitment to customer service is also a key factor in its success. The company's products are designed to be easy to use and to provide a high level of performance. The company's commitment to innovation is also a key factor in its success. The company's products are designed to meet the needs of a wide range of users, from hobbyists to professional operators.

TELE-satellite World www.tele-satellite.com

Country	Station Name	Frequency	Power	Service
Germany	Usingen	11.035 GHz	100 W	TV, Data
Germany	Usingen	11.035 GHz	100 W	TV, Data
Germany	Usingen	11.035 GHz	100 W	TV, Data

www.TELE-satellite.com/TELE-satellite-0811/eng/spaun.pdf

SMART

Receiver Manufacturer, Germany

COMPANY REPORT Receiver Manufacturer Smart

Being 'SMART' in Germany's Black Forest

When you hold the issue of TELE-satellite in your hands the company Smart Electronic will only have been in existence for just over a year. It is relatively new to the satellite world, but it has already established a reputation for itself. The company's success is based on its high quality products and its commitment to innovation. In 2011, the company has introduced a new range of products, including the new SMART 1000, which is a significant step forward in the development of satellite receivers. The company is also expanding its production facilities to meet the growing demand for its products. This expansion is a testament to the company's long-standing reputation for quality and reliability. The new products are designed to provide users with a more convenient and efficient way to use their satellite equipment. The company's commitment to research and development is evident in the range of new products it has introduced. These products are designed to meet the needs of a wide range of users, from hobbyists to professional operators. The company's success is a result of its dedication to quality and its commitment to innovation. The company's products are known for their reliability and performance, and this reputation has helped it to establish a strong presence in the market. The company's commitment to customer service is also a key factor in its success. The company's products are designed to be easy to use and to provide a high level of performance. The company's commitment to innovation is also a key factor in its success. The company's products are designed to meet the needs of a wide range of users, from hobbyists to professional operators.

TELE-satellite World www.tele-satellite.com

Country	Station Name	Frequency	Power	Service
Germany	Usingen	11.035 GHz	100 W	TV, Data
Germany	Usingen	11.035 GHz	100 W	TV, Data
Germany	Usingen	11.035 GHz	100 W	TV, Data

www.TELE-satellite.com/TELE-satellite-0901/eng/smart.pdf

GT SAT

LNB Distributor, Luxembourg

COMPANY REPORT LNB Distributor GT-SAT

GT-SAT

The GT-SAT LNB distributor is a leading provider of satellite LNBs. The company's success is based on its high quality products and its commitment to innovation. In 2011, the company has introduced a new range of products, including the new GT-SAT 1000, which is a significant step forward in the development of satellite LNBs. The company is also expanding its production facilities to meet the growing demand for its products. This expansion is a testament to the company's long-standing reputation for quality and reliability. The new products are designed to provide users with a more convenient and efficient way to use their satellite equipment. The company's commitment to research and development is evident in the range of new products it has introduced. These products are designed to meet the needs of a wide range of users, from hobbyists to professional operators. The company's success is a result of its dedication to quality and its commitment to innovation. The company's products are known for their reliability and performance, and this reputation has helped it to establish a strong presence in the market. The company's commitment to customer service is also a key factor in its success. The company's products are designed to be easy to use and to provide a high level of performance. The company's commitment to innovation is also a key factor in its success. The company's products are designed to meet the needs of a wide range of users, from hobbyists to professional operators.

TELE-satellite World www.tele-satellite.com

Country	Station Name	Frequency	Power	Service
Germany	Usingen	11.035 GHz	100 W	TV, Data
Germany	Usingen	11.035 GHz	100 W	TV, Data
Germany	Usingen	11.035 GHz	100 W	TV, Data

www.TELE-satellite.com/TELE-satellite-0805/eng/gtsat.pdf

NANOXX

Wholesaler and Receiver Manufacturer, Germany

COMPANY REPORT Wholesaler and Receiver Manufacturer Nanoxx

Two X's Mark the Spot in Frankfurt

NANOXX

The trademark of the receiver manufacturer's NANOXX product are the two X's. These two X's also appear in the NANOXX company name. The founder and President of Nanoxx and chose the name NANOXX for his line of receivers. It's actually a clever name as the two large X's truly stand out.

TELE-satellite World www.tele-satellite.com

Country	Station Name	Frequency	Power	Service
Germany	Usingen	11.035 GHz	100 W	TV, Data
Germany	Usingen	11.035 GHz	100 W	TV, Data
Germany	Usingen	11.035 GHz	100 W	TV, Data

www.TELE-satellite.com/TELE-satellite-0901/eng/nanoxx.pdf

TECHNISAT

TV Manufacturer, Germany

COMPANY REPORT Technisat Televisual AG

TV Made in Germany

Alexander Weiss

There are only a few TV manufacturers in Germany, and Technisat is one of them. The company's success is based on its high quality products and its commitment to innovation. In 2011, the company has introduced a new range of products, including the new TECHNISAT 1000, which is a significant step forward in the development of satellite TV. The company is also expanding its production facilities to meet the growing demand for its products. This expansion is a testament to the company's long-standing reputation for quality and reliability. The new products are designed to provide users with a more convenient and efficient way to use their satellite equipment. The company's commitment to research and development is evident in the range of new products it has introduced. These products are designed to meet the needs of a wide range of users, from hobbyists to professional operators. The company's success is a result of its dedication to quality and its commitment to innovation. The company's products are known for their reliability and performance, and this reputation has helped it to establish a strong presence in the market. The company's commitment to customer service is also a key factor in its success. The company's products are designed to be easy to use and to provide a high level of performance. The company's commitment to innovation is also a key factor in its success. The company's products are designed to meet the needs of a wide range of users, from hobbyists to professional operators.

TELE-satellite World www.tele-satellite.com

Country	Station Name	Frequency	Power	Service
Germany	Usingen	11.035 GHz	100 W	TV, Data
Germany	Usingen	11.035 GHz	100 W	TV, Data
Germany	Usingen	11.035 GHz	100 W	TV, Data

www.TELE-satellite.com/TELE-satellite-0709/eng/technisat.pdf



BEST DIGITAL TV COMPANIES in S/E EUROPE

AB IPBOX

Satellite Receiver Manufacturer, Slovakia



www.abipbox.com

COMPANY REPORT Receiver Manufacturer AB IPBOX, Slovakia

AB IPBOX New Manufacturer in Central Europe

AB IPBOX was only established in January 2010, which might lead you to think it would take some time to get a foothold in a highly competitive market. On the contrary, AB IPBOX counts on the expertise and technical know-how of its owners and employees. We wanted to find out more about this new player and visited the company in the small Slovak town of Trebišov. After all, it doesn't happen every day that a new start-up enters the receiver playground.

www.TELE-satellite.com/TELE-satellite-1009/eng/abipbox.pdf

PULSTAR

Satellite Installer, Spain

COMPANY REPORT Satellite Installer, Torrevieja, Spain

PULSTAR

On an island like Torrevieja that is visited by tourists from all over Europe and is also home to many embassies, the demand for satellite TV from home is exponentially high. But at the same time the equipment requirements to do this are also extraordinarily complex since Torrevieja is for outside the official jurisdiction of many European satellites.

www.TELE-satellite.com/TELE-satellite-0911/eng/pulstar.pdf

AZBOX

Satellite Receiver Manufacturer, Portugal



www.azbox.com

COMPANY REPORT Satellite Receiver Manufacturer AZBOX, Portugal

AZBOX's Quick Ascent

Alexander Wies

AZBOX, founded in 2005, really came out running right from the gate. The truth is, it's actually later than that since AZBOX has only been a manufacturer of satellite receivers since 2007. In 2009 they received sales of 100,000 TV receivers. We wanted to get a better understanding of this success story so we decided to make our way to northern Portugal in Mazo's industrial zone in the Matosinhos district. One kilometer further north and we would be in Spain.

www.TELE-satellite.com/TELE-satellite-1001/eng/azbox.pdf

PROMAX

Accessory Manufacturer, Spain

COMPANY REPORT Digital Powerhouse PROMAX, Spain

PROMAX

The Four Divisions of PROMAX

TELE-satellite readers have known about PROMAX's reliable, widely used satellite signal analyzers for many years now. They are recognizable by their characteristic yellow color. But PROMAX has made it more to offer their products come from those that you already know to signal processing products all the way to end-user signal distribution components.

www.TELE-satellite.com/TELE-satellite-0909/eng/promax.pdf

ABC BIZNIS

Satellite Receiver Manufacturer, Slovakia



www.abcbiznis.sk

COMPANY REPORT Receiver Manufacturer, Slovakia

ABC BIZNIS – true battlers

This is a young team on its way to the top in the European satellite receiver market under their own brand OPENSAT. ABC BIZNIS was only founded at the end of 2004 and has managed to become a major supplier of satellite receivers in the short time since then. Unfortunately, the path to success was characterised by the tragic death of the company's founder in 2008. He wanted to find out how ABC BIZNIS was able to cope with this tragic event.

ABC BIZNIS is an excellent example of the true battlers who have overcome adversity to succeed. The company was founded in 2004 by the late Miroslav Štefánek, who had a vision of creating a European satellite receiver manufacturer. He was a true battler, and his death in 2008 was a tragic event. However, the company has managed to continue its operations and has become a major supplier of satellite receivers in the short time since then. This is a testament to the resilience and determination of the company's management and staff.

At the beginning of 2009, the company was in a difficult position. The founder's death had left the company without its main driving force. However, the management team decided to continue the company's operations and to focus on the production of satellite receivers. They had to overcome many challenges, including the loss of the founder's expertise and the need to find new investors and partners. Despite these difficulties, the company has managed to maintain its production levels and has even expanded its product range.

The company's success can be attributed to several factors. First, the management team has a strong focus on quality and customer service. They have invested in state-of-the-art production facilities and have implemented strict quality control measures. Second, the company has a strong marketing strategy. They have participated in numerous trade fairs and exhibitions, which has helped them to establish a strong presence in the market. Finally, the company has a highly motivated and skilled workforce. The staff is dedicated to their work and has played a key role in the company's success.

ABC BIZNIS is a true battler, and its story is an inspiration to all who are looking for ways to overcome adversity and achieve success. The company's management and staff have shown that it is possible to overcome even the most difficult challenges and to build a successful business. ABC BIZNIS is a true battler, and its story is an inspiration to all who are looking for ways to overcome adversity and achieve success.

ABC BIZNIS

www.TELE-satellite.com/TELE-satellite-0903/eng/abcbiznis.pdf

ANTECH

Uplink Technology, Italy

SATELLITE TRANSMISSION Antech

TELE-SATELLITE REPORT: Uplink Technology, Italy

Antech Uplink Car 'One Touch and Go'

Antech Uplink Car 'One Touch and Go'

www.TELE-satellite.com/TELE-satellite-0809/eng/antech.pdf

MENNYFIX

Satellite Shop, Spain

COMPANY REPORT Satellite Shop, Spain

Mennyfix

Obviously, the company name Mennyfix is a play on words: 'Menny fix', that also can be anything. Menny is the nickname for Mennyfix's founder who moved to Navarra from Germany 23 years ago and began selling and installing satellite systems.

Mennyfix is a satellite shop in Navarra, Spain. The company was founded by Mennyfix, who moved to Navarra from Germany 23 years ago and began selling and installing satellite systems. The company has a long history of providing satellite services to its customers. Mennyfix is a true professional who has built a successful business in the satellite industry. The company's success is a testament to the quality of its products and services and to the dedication of its staff.

Mennyfix is a true professional who has built a successful business in the satellite industry. The company's success is a testament to the quality of its products and services and to the dedication of its staff. Mennyfix is a true professional who has built a successful business in the satellite industry. The company's success is a testament to the quality of its products and services and to the dedication of its staff.

Mennyfix

www.TELE-satellite.com/TELE-satellite-0903/eng/mennyfix.pdf

STAB

Antenna Motor Manufacturer, Italy

COMPANY REPORT Motor Control

STAB

Happy Birthday 10 Years

USALS Celebrates 10 Years Alexander Wieser

STAB - USALS UNIVERSAL SATELLITES AUTOMATIC LOCATION SYSTEM

www.TELE-satellite.com/TELE-satellite-0809/eng/stab.pdf

TELEIPPICA

Uplink Station, Italy

COMPANY REPORT Uplink Station, Italy

From DXer to Technical Manager

A Visit with Mario Succi from Teleippica in Lucca (Toscana), Italy

From DXer to Technical Manager

www.TELE-satellite.com/TELE-satellite-0811/eng/teleippica.pdf

OPERATOR MARKET Qualified

Classification for Best Digital TV Companies



Attributes of Qualified Company:

- High Production Volume
- Quality Controlled
- Customized Product Case
- Customized Product Software
- Aftersale Service



YAHYA

ATLANTA
COMINTOUCH
ECHOLINK

BEST DIGITAL TV COMPANIES in MIDDLE EAST

ATLANTA

Satellite Wholesaler, UAE

COMPANY REPORT | Satellite Wholesaler ATLANTA, Dubai

SmartWi Distributor ATLANTA in Dubai

This report was written because of SmartWi, the Card Sharing Media that lets you watch every channel in every room in your house using just one PayTV card. SmartWi in Denmark distributes their products all over the world and this includes The Middle East. SmartWi's ever increasing sales figures in the region are due in large part to the non-stop efforts of local distributor ATLANTA headquartered in Sharjah in the United Arab Emirates.

After having spent an entire year in the market in Dubai, we have seen the growth of SmartWi in the region. SmartWi is a Danish company that has been in the market since 2004. They have a strong presence in the Middle East and are expanding their reach into other regions. ATLANTA is a local distributor that has been successful in the region. They have a strong presence in the Middle East and are expanding their reach into other regions.

ATLANTA is a leading satellite wholesaler in Dubai, offering a wide range of services and products. They are a trusted partner for many customers in the region. ATLANTA is a leading satellite wholesaler in Dubai, offering a wide range of services and products. They are a trusted partner for many customers in the region.

www.TELE-satellite.com/TELE-satellite-1007/eng/atlanta.pdf

ECHOLINK

Satellite Wholesaler, UAE

COMPANY REPORT | Satellite Wholesaler ECHOLINK, Dubai

TRIMAX Distributor ECHOLINK in Dubai

One of the largest satellite wholesalers in Dubai is ECHOLINK. The company even has four stores in Dubai's Satellite South. There is still a long way to go for an endless variety of satellite shops right on top of the next one. The local market in Dubai isn't off the top of the list for the largest in Dubai's Satellite South are looking down the surrounding Middle Eastern and Arab's African countries - now referred to as MENA (Middle East, North Africa).

At ECHOLINK's General Manager, the company is looking for new distribution and expansion opportunities. The company is looking for new distribution and expansion opportunities. The company is looking for new distribution and expansion opportunities.

ECHOLINK is a leading satellite wholesaler in Dubai, offering a wide range of services and products. They are a trusted partner for many customers in the region. ECHOLINK is a leading satellite wholesaler in Dubai, offering a wide range of services and products. They are a trusted partner for many customers in the region.

www.TELE-satellite.com/TELE-satellite-1007/eng/echolink.pdf

COMINTOUCH

Satellite Wholesaler, UAE

COMPANY REPORT | Satellite Wholesaler COMINTOUCH, Dubai

SPAUN at COMINTOUCH in Dubai

Made for each other That's how we can best sum up the relationship between German multi-media manufacturer SPAUN and Dubai-based trading and project company COMINTOUCH. After all, SPAUN would not be able to profit from a comfortable market share in the Middle East without COMINTOUCH, while on the other hand COMINTOUCH's rock-solid growth in recent years is largely attributable to SPAUN products. Make no mistake about it, COMINTOUCH generates 30% of its turnover with products made by SPAUN.

It is all about the relationship between SPAUN and COMINTOUCH. They are a trusted partner for many customers in the region. SPAUN is a leading satellite wholesaler in Dubai, offering a wide range of services and products. They are a trusted partner for many customers in the region.

COMINTOUCH is a leading satellite wholesaler in Dubai, offering a wide range of services and products. They are a trusted partner for many customers in the region. COMINTOUCH is a leading satellite wholesaler in Dubai, offering a wide range of services and products. They are a trusted partner for many customers in the region.

www.TELE-satellite.com/TELE-satellite-1007/eng/comintouch.pdf

YAHYA

Software Programming, KSA

COMPANY REPORT | Software Programmer YAHYA, Saudi Arabia

Enigma in Arabic – How does it work? Paying a visit to Yahya in Saudi Arabia

When you switch on a receiver for the very first time you are usually asked which language you prefer: English, German or French are obvious choices. But what about Russian or... Arabic? From a technical point of view translating one language into another is no big deal. But while most languages are written from left to right, some - such as Arabic - start on the right and go left, and that's where the problems begin. We set off to meet Yahya and to learn how these problems can be solved. His first assignment in Saudi Arabia would be to write the software for the receiver. He is a software programmer in Saudi Arabia and would rather not have his first name published because what he does is considered a grey zone by some, even though it's not against the law.

Yahya is a software programmer in Saudi Arabia, offering a wide range of services and products. They are a trusted partner for many customers in the region. Yahya is a software programmer in Saudi Arabia, offering a wide range of services and products. They are a trusted partner for many customers in the region.

www.TELE-satellite.com/TELE-satellite-0911/eng/yahya.pdf

OPERATOR MARKET Qualified

Classification for Best Digital TV Companies



Attributes of Qualified Company:

- High Production Volume ■ Quality Controlled
- Customized Product Case ■ Customized Product Software
- Aftersale Service

NASA CNS

Satellite Wholesaler, Korea



www.TELE-satellite.com/TELE-satellite-0805/eng/nasacsns.pdf

FASHION TV

Satellite Channel, Thailand



www.TELE-satellite.com/TELE-satellite-0811/eng/fashiontv.pdf

SUBUR SEMESTA

Dish Manufacturer, Indonesia



www.TELE-satellite.com/TELE-satellite-0805/eng/subursemesta.pdf

YONGSAN

Satellite Shop, Korea



www.TELE-satellite.com/TELE-satellite-0807/eng/koreasatshop.pdf

SEKISAT

Satellite Wholesaler, Korea



www.TELE-satellite.com/TELE-satellite-0801/eng/sekisat.pdf



BEST DIGITAL TV COMPANIES in CHINA

BOXSAM

Receiver Manufacturer, China

www.boxsam.com

Receivers made by BOXSAM

BOXSAM can now be considered an important company and a new member of 15 million USD. Starting out with CATV products, BOXSAM expanded its business to cover satellite receivers and some other electronic products as well in 2004. We paid a visit to this company to learn about their way of doing business.

BOXSAM is headquartered in the city of Chengde, and a subsidiary of around 100 million is a specialized small city in Chinese territory.

When it comes to the production of satellite receivers, BOXSAM has a long history. It was founded in 1998 and has since then been producing satellite receivers for the Chinese market. The company's products are sold in various parts of the world, including Europe, Africa, and Latin America.

BOXSAM's products are known for their high quality and reliability. The company has a strong reputation in the market, and its products are widely used by consumers and professionals alike.

www.TELE-satellite.com/TELE-satellite-1009/eng/boxsam.pdf

SVEC

Professional Dish Manufacturer, China

www.svec.com.cn

SVEC Dishes from Chengdu/Sichuan
Alexander Weiss

The Sichuan province is well known outside of China for its spicy cuisine. A national favorite is the "red hot" in one pot with two separate sections a very spicy soup and a rice soup and heated up food which consumers are used to drink in different types of food for a few minutes. This could be doing spicy pieces of meat or vegetables. Along with that you drink something spicy to eat before the spices of the hot pot. The company SVEC in Sichuan's capital city of Chengde, a city with eight million inhabitants in northwestern China, has its own space market. SVEC is working for new challenges adding to their production of satellite dishes: they want to play a much bigger role in the world market with high-quality products.

SVEC is a professional manufacturer of satellite dishes. The company has a long history of producing high-quality dishes for the Chinese market. The dishes are known for their durability and performance.

SVEC's products are used by a wide range of customers, including government agencies, educational institutions, and private individuals. The company has a strong reputation in the market, and its products are widely used.

www.TELE-satellite.com/TELE-satellite-1003/eng/svec.pdf

YINHE

High Volume Receiver Manufacturer, China

www.yinhe.com

Organized for the Future Receiver Manufacturer YINHE Presents Their Factory
Alexander Weiss

Chinese high volume manufacturer YINHE is one of the top five producers in China. Although this company is well known within China, it is only the provider that receives the name YINHE outside the country since abroad it is only an OEM. In other words, the YINHE designed boxes (Original Design) are marketed by other companies, primarily dealers and programming operators, under their own brand name. YINHE therefore is just the manufacturer (OEM) and not the brand name. There are no plans for YINHE to give the brand name to other companies. What does it look like inside one of these high-volume manufacturing plants? TELE-satellite wanted to find out.

The mission of YINHE is to provide high-quality digital TV receivers to the Chinese market. The company has a long history of producing high-quality receivers for the Chinese market. The receivers are known for their high quality and reliability.

YINHE's products are used by a wide range of customers, including government agencies, educational institutions, and private individuals. The company has a strong reputation in the market, and its products are widely used.

www.TELE-satellite.com/TELE-satellite-1007/eng/yinhe.pdf

SKYWORTH

Receiver Manufacturer, China

www.skyworthdigital.com

Quality Control at Skyworth

One of the largest receiver manufacturers in the world is Skyworth. Skyworth Group Co., Ltd. is one of the leading manufacturers of TV sets in China. The company started into the satellite receiver market as early as 1997 and in 2002 a subsidiary was established under the name of Shenzhen Skyworth Digital Technology Co., Ltd. These 13 years of experience in satellite technology made the company more and more professional and in 2007 Skyworth started to be the leading STB (set-top box) manufacturer in China.

Skyworth is a leading manufacturer of digital TV receivers. The company has a long history of producing high-quality receivers for the Chinese market. The receivers are known for their high quality and reliability.

Skyworth's products are used by a wide range of customers, including government agencies, educational institutions, and private individuals. The company has a strong reputation in the market, and its products are widely used.

www.TELE-satellite.com/TELE-satellite-1003/eng/skyworth.pdf

CHANGHONG

Receiver and TV Manufacturer, China



www.changhong.com

COMPANY REPORT Receiver and TV Manufacturer CHANGHONG, China

Large-scale Quality and Innovation Made by CHANGHONG

CHANGHONG is one of the largest receiver manufacturers of receivers with headquarters in Nanjing in the Southern province of south-eastern China, some 130 km from the province capital of Chengde. Not only do millions of satellite and terrestrial receivers leave the production premises every year, but also an equal number of TVs, so that the company ranks among the most important digital corporations in the world.

Looking at their business today, it is hard to imagine the humble beginning of the company. In 1985, CHANGHONG was established as a state-owned enterprise. Over the years, the company has grown from a small factory to a large-scale manufacturer of receivers and TVs. The company has received numerous awards and recognitions, including being named a 'China's Top 1000 Enterprises' and a 'China's Top 1000 Brands'.

CHANGHONG is committed to innovation and quality. The company has invested heavily in research and development, and has developed a wide range of products, including receivers, TVs, and set-top boxes. The company's products are sold in over 100 countries and regions, and have a strong reputation for reliability and performance.

CHANGHONG is also committed to environmental protection and social responsibility. The company has implemented a number of measures to reduce its carbon footprint and improve its working conditions. The company is a member of the United Nations Global Compact and has signed the Compact's 10 Principles.

CHANGHONG is a leading manufacturer of receivers and TVs in China, and is committed to providing high-quality products and services to its customers. The company's products are sold in over 100 countries and regions, and have a strong reputation for reliability and performance.

www.TELE-satellite.com/TELE-satellite-1003/eng/changhong.pdf

MTI

LNB Manufacturer, Taiwan

COMPANY REPORT LNB Manufacturer MTI

News From Innovation Road

MTI is a leading manufacturer of LNBs in Taiwan, and is committed to providing high-quality products and services to its customers. The company's products are sold in over 100 countries and regions, and have a strong reputation for reliability and performance.

MTI is committed to innovation and quality. The company has invested heavily in research and development, and has developed a wide range of products, including LNBs, set-top boxes, and receivers. The company's products are sold in over 100 countries and regions, and have a strong reputation for reliability and performance.

MTI is also committed to environmental protection and social responsibility. The company has implemented a number of measures to reduce its carbon footprint and improve its working conditions. The company is a member of the United Nations Global Compact and has signed the Compact's 10 Principles.

MTI is a leading manufacturer of LNBs in Taiwan, and is committed to providing high-quality products and services to its customers. The company's products are sold in over 100 countries and regions, and have a strong reputation for reliability and performance.

www.TELE-satellite.com/TELE-satellite-0707/eng/mti.pdf

SHALOM

Satellite Installer, China

COMPANY REPORT Satellite Installer, Beijing, China

Shalom Beijing

Shalom means, that's not really his name, but that's about what it sounds like in Chinese. He finds his name to be very catchy and at the same time very appropriate. Shalom is a satellite installer in Beijing, in a country where satellite reception is still officially illegal, or risky at the very least. Of course, this makes it all the more interesting for us so we wanted to get a closer look at his business. He met up with him in one of Beijing's most popular sports bars - "The Dots".

Shalom is a satellite installer in Beijing, in a country where satellite reception is still officially illegal, or risky at the very least. Of course, this makes it all the more interesting for us so we wanted to get a closer look at his business. He met up with him in one of Beijing's most popular sports bars - "The Dots".

Shalom is a satellite installer in Beijing, in a country where satellite reception is still officially illegal, or risky at the very least. Of course, this makes it all the more interesting for us so we wanted to get a closer look at his business. He met up with him in one of Beijing's most popular sports bars - "The Dots".

www.TELE-satellite.com/TELE-satellite-0911/eng/shalom.pdf

AZURESHINE

Professional Dish Manufacturer, Taiwan



www.azureshine.com.tw

COMPANY REPORT Satellite Dish Manufacturer Azure Shine

Dishes in Focus

Azure Shine is a leading manufacturer of satellite dishes in Taiwan, and is committed to providing high-quality products and services to its customers. The company's products are sold in over 100 countries and regions, and have a strong reputation for reliability and performance.

Azure Shine is committed to innovation and quality. The company has invested heavily in research and development, and has developed a wide range of products, including satellite dishes, set-top boxes, and receivers. The company's products are sold in over 100 countries and regions, and have a strong reputation for reliability and performance.

Azure Shine is also committed to environmental protection and social responsibility. The company has implemented a number of measures to reduce its carbon footprint and improve its working conditions. The company is a member of the United Nations Global Compact and has signed the Compact's 10 Principles.

Azure Shine is a leading manufacturer of satellite dishes in Taiwan, and is committed to providing high-quality products and services to its customers. The company's products are sold in over 100 countries and regions, and have a strong reputation for reliability and performance.

www.TELE-satellite.com/TELE-satellite-0707/eng/azureshine.pdf

TAIWAN SATELLITE

Satellite Installer, Taiwan

COUNTRY REPORT Best Installer in Taiwan

Taiwansatellite.tv, Taipei

Alexander Weiss

Taiwan is a country with a rich history and a vibrant culture. It is also a country where satellite reception is still officially illegal, or risky at the very least. Of course, this makes it all the more interesting for us so we wanted to get a closer look at his business. He met up with him in one of Taipei's most popular sports bars - "The Dots".

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www.TELE-satellite.com/TELE-satellite-0707/eng/taiwansatellite.pdf

MOTECK

Antenna Motor Manufacturer, Taiwan



www.motek.com

COMPANY REPORT Antenna Motor Manufacturer MOTECK

MOTECK's Motor Professionals

MOTECK is a leading manufacturer of antenna motors in Taiwan, and is committed to providing high-quality products and services to its customers. The company's products are sold in over 100 countries and regions, and have a strong reputation for reliability and performance.

MOTECK is committed to innovation and quality. The company has invested heavily in research and development, and has developed a wide range of products, including antenna motors, set-top boxes, and receivers. The company's products are sold in over 100 countries and regions, and have a strong reputation for reliability and performance.

MOTECK is also committed to environmental protection and social responsibility. The company has implemented a number of measures to reduce its carbon footprint and improve its working conditions. The company is a member of the United Nations Global Compact and has signed the Compact's 10 Principles.

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www.TELE-satellite.com/TELE-satellite-0707/eng/motek.pdf



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JIUZHOU

Receiver Manufacturer, China



www.jiuzhou.com.cn

COMPANY REPORT | DTT at Jiuzhou, China

Terrestrial Receivers at Jiuzhou



Our readers are very familiar with Jiuzhou - have a look at TELE-satellite issue 02-03(2009) to 2009 Jiuzhou celebrated their 50th birthday and moved into their new Jiuzhou Electronic Building One TELE-satellite issue 02-03(2008) in September 2009, when the Shenzhen Metro Line 1 was extended, Jiuzhou became close to a Metro station. It's a five minute walk to the station which has a nice and fitting name: "Lu Xun Park".



TELE-satellite World

www.TELE-satellite.com/TELE-satellite-1003/eng/jiuzhou.pdf
www.TELE-satellite.com/TELE-satellite-0903/eng/jiuzhou.pdf
www.TELE-satellite.com/TELE-satellite-0803/eng/jiuzhou.pdf
www.TELE-satellite.com/TELE-satellite-0703/eng/jiuzhou.pdf

ALUOSAT

Satellite Consultant, China



www.aluosat.com

COMPANY REPORT | Satellite Consultant, China

Aluo-sat Knows Everybody!

Let's be honest the company name is a bit strange. In the European market, "Aluo" is often confused for the first name of a person. In the Chinese market, "Aluo" is a common pronunciation for the name of the company. The company name is a bit strange, but it's not a problem. The company name is a bit strange, but it's not a problem. The company name is a bit strange, but it's not a problem.




TELE-satellite World

www.TELE-satellite.com/TELE-satellite-0905/eng/aluosat.pdf

KAIFA

Satellite Receiver Manufacturer, China

COMPANY REPORT | Satellite Receiver Manufacturer Kaifa, China



The Birth of a New Receiver Manufacturer

Kaifa in China Starts Production

For the first time this issue of TELE-satellite will be published, Kaifa will have been manufacturing satellite receivers for just a few weeks. When we paid them a visit, they were just finishing the installation of their assembly line and an initial test run was soon to follow. Who exactly is Kaifa and what makes this company think they're ready to step into the market as a satellite receiver manufacturer?



www.TELE-satellite.com/TELE-satellite-1003/eng/kaifa.pdf


LAOGE

Satellite Installer, China

COMPANY REPORT | Satellite Installer, China

Shenzhen Satellites

As of now private satellite reception is still illegal in China, but in actual fact you can always find a business if only you look hard enough. Satellite installers advertising their services in English and setting up systems for foreigners, for example, don't have much to fear from the authorities.





www.TELE-satellite.com/TELE-satellite-0903/eng/laoge.pdf

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INTELLITECH

Satellite Shop, Hongkong

COUNTRY REPORT Hongkong

Satellite Shopping in HongKong

The article discusses the satellite shopping market in Hong Kong, mentioning the challenges of the market and the role of INTELLITECH. It highlights the company's focus on providing high-quality satellite services and equipment to its customers.

www.TELE-satellite.com/TELE-satellite-0809/eng/intellitech.pdf

SMIT

CAM Manufacturer, China

COMPANY REPORT CAM Producer SMIT

SMIT - CAMs for the World

The article provides an overview of SMIT, a leading manufacturer of satellite CAMs. It details the company's history, its commitment to innovation, and its global presence. The text also mentions the company's participation in various international trade fairs and exhibitions.

www.TELE-satellite.com/TELE-satellite-0703/eng/smit.pdf

WORLDWIDE SATELLITES

Satellite Wholesaler, Canada

COMPANY REPORT | North American Satellite Wholesaler

Worldwide Satellites in Toronto

Satellite business in a franchise system. This is the concept that Rick Adams from Worldwide Satellites in Toronto, Canada follows. Satellite business based on a franchise system? What exactly does this mean? We wanted to know so we reached out to Mr. Adams. This city is right next to Toronto and is also the home of Toronto's Pearson International Airport.

Mr. Adams says he began his business in 2001. He started with a small office and a few employees. He has since grown to a multi-million dollar business. He is now a franchise owner and has several other franchisees in the area.

Mr. Adams says he has a lot of experience in the satellite industry. He has worked for several major satellite providers and has a deep understanding of the market. He is now able to provide his franchisees with the best possible service and support.

Mr. Adams says he is looking for qualified franchisees who are interested in the satellite industry and who are willing to invest in their own business. He is currently accepting applications for franchisees in the Toronto area.

For more information, please contact Mr. Adams at www.tele-satellite.com.





www.TELE-satellite.com/TELE-satellite-0905/eng/worldwidesatellites.pdf

SADOUN

Satellite Dealer, USA

COMPANY REPORT | Satellite Dealer Sadoun

Into the Satellite Future at High Speed

The 20th anniversary of Sadoun Satellite Services is a time to reflect on the company's growth and success. Since its founding in 1992, Sadoun has become a leading satellite dealer in the USA. The company's success is a result of its commitment to customer service and its focus on providing the best possible service to its customers.

Sadoun's success is a result of its commitment to customer service. The company's staff is trained to provide the best possible service to its customers. The company's focus on customer service has helped it build a strong reputation in the industry.

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www.TELE-satellite.com/TELE-satellite-0707/eng/sadoun.pdf

SONICVIEW

Satellite Receiver Manufacturer, USA

COMPANY REPORT | Satellite Receiver Manufacturer

Millionaire in 4 Years – Maybe Even 3! SonicView, USA

SonicView is a leading manufacturer of satellite receivers in the USA. The company's success is a result of its commitment to quality and its focus on providing the best possible service to its customers. The company's products are known for their reliability and performance.

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www.TELE-satellite.com/TELE-satellite-0903/eng/sonicview.pdf

SATMAN

Satellite Dealer, Canada

COMPANY REPORT | Canada

Satellite Business in Winnipeg, Manitoba

21st Century Entertainment Inc. is a leading satellite dealer in Winnipeg, Manitoba. The company's success is a result of its commitment to customer service and its focus on providing the best possible service to its customers. The company's products are known for their reliability and performance.

21st Century Entertainment's success is a result of its commitment to customer service. The company's staff is trained to provide the best possible service to its customers. The company's focus on customer service has helped it build a strong reputation in the industry.

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www.TELE-satellite.com/TELE-satellite-0705/eng/satman.pdf

MFC

Satellite Filter Manufacturer, USA



www.microwavefilter.com

COMPANY REPORT | Satellite Filter Manufacturer, USA

Microwave Filter Company High Quality Specialized Filters Made in USA

Microwave Filter Company is a leading manufacturer of satellite filters in the USA. The company's success is a result of its commitment to quality and its focus on providing the best possible service to its customers. The company's products are known for their reliability and performance.

Microwave Filter Company's success is a result of its commitment to quality. The company's products are known for their reliability and performance. The company's focus on quality has helped it build a strong reputation in the industry.

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www.TELE-satellite.com/TELE-satellite-0903/eng/mfc.pdf

FORTECSTAR

Receiver Manufacturer, Canada

COMPANY REPORT | Receiver Manufacturer Fortec Communications America

From Dealer to Producer Alexander Weisz

Fortecstar is a leading receiver manufacturer in Canada. The company's success is a result of its commitment to quality and its focus on providing the best possible service to its customers. The company's products are known for their reliability and performance.

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www.TELE-satellite.com/TELE-satellite-0705/eng/fortecstar.pdf

Satbeams

A Website for Professionals



Alexander Derjugin has set some lofty goals for himself. He is the founder and operator of the satbeams.com website the main purpose of which is to reach the professionals. That's a rather ambitious goal so we wanted to find out from him personally how he intends to reach it. We met up with him in Brussels, Belgium, the city he calls home.

First we wanted to know how satellite reception came into his life. He explains, "I'm originally from Moscow. I worked there as an IT manager for a big 'Fast Moving Consumer Goods' company. The company transferred me with my family to their European headquarters in Brussels back in 2001."

There Alexander Derjugin started to work as an IT consultant in the area of web infrastructure. In 2003 his department was outsourced to another big

international company providing global IT services he continues to work as a Managed Web Service consultant.

Working in another country is a big challenge and it was very important for Alexander to setup his first satellite dish to receive Russian programs! "If we couldn't receive Russian TV, my wife would be very upset and we would just pack and go back to Moscow", jokes Alexander Derjugin. As it turns out, he has his wife to thank for getting his start

■ Alexander Derjugin, founder and operator of the satbeams website. In the lobby of a hotel in Brussels, Belgium, he uses his laptop to explain the functionality of satbeams.com.

in satellite reception. "My first satellite system consisted of an 80cm antenna that I used back then to receive SIRIUS at 4.8 east and HOTBIRD at 13 east", he explains. Not long after that, he expanded his system to 100cm.

Meanwhile, Alexander Derjugin wanted to learn more about this mysterious technology. As his colleagues and friends also learned of his interest they began asking him more and more questions related to satellite reception. One thing led to another and he eventually became a satellite specialist.

As Alexander worked most of the time with web technologies, he one day came across the idea to combine satellite footprints with Google Maps. That was back

CHINA

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CABLE RECEIVERS
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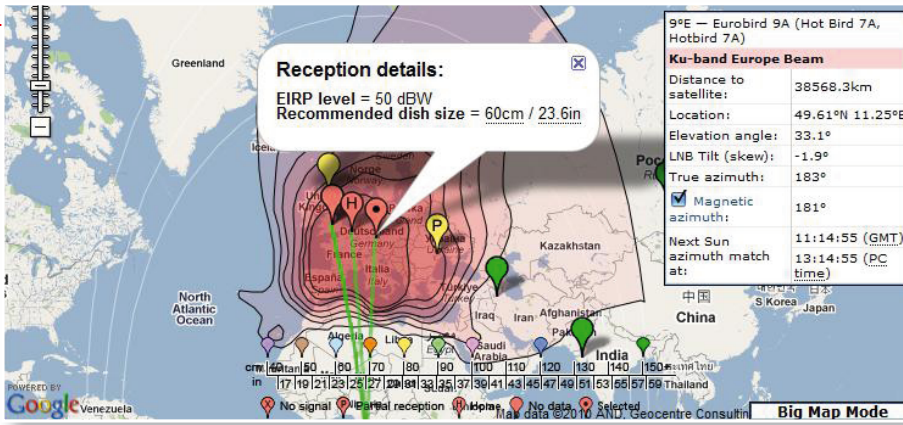
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■ An example from the satbeams.com website: the footprint of EUROIRD 9A is projected online onto Google Maps. You can zoom into and out of the map with the footprints matching each individual map. Satbeams has created an electronic version of the footprint of every satellite. Professional users can license the data and then use the data on their own website.

in 2006 and after few months of hesitation he decided to implement this idea. "In the Fall of 2007 I contracted several talented programmers who helped me develop the necessary software as well as electronically convert the satellite footprints", he explains. In the middle of 2008 the web site went online with its first version. Initially, Alexander wanted to use the domain name "satcoverage" but a friend suggested that "satbeams" would be better. "That name is short, easy to remember and gets right to the point", he says.

At first Alexander Derjugin wanted to gear his web-site more

towards satellite DXers, in other words towards hobbyists. He implemented the solution that satellite DXers could click on their location via Google Maps and then enter in realistic reception results. But he wasn't satisfied with the results and decided to redesign the website. In July 2009 the new version of Satbeams went live.

Now almost every satellite footprint from around the world was digitized and could be projected onto Google Maps. "Dozens of volunteers help me keep all of the satellite data up-to-date", he says. So in addition to satellite technical details and footprints all of the associated transponder data is also displayed.

Now he's in the process of making his website more user-friendly. "I am focused on 'usability' to improve the user experience", he explains, "you can search by channel name or your address and filter the

charts by any field like 'language' or 'band'. All of the data is linked together and you can reach almost any information with just 2-3 clicks of the mouse."

Alexander is constantly thinking about how he can make his website even more user-friendly. "But above all I want to reach out to professionals and implement additional features that would be useful for them. For example satellite providers would be interested to know if their footprint overlaps with footprints of other satellites." So Alexander is thinking of the best way to overlay multiple footprints on the worlds map which would make it easy to see what satellites cover the same area.

He sees the future of Satbeams with specialised applications. "Interested companies could license the footprint data from me", says Alexander Derjugin, "with the monthly licensing fee the footprint updates are locked in."

What kind of companies could use his services? "First and foremost would be Internet-via-Satellite providers", comments Alexander Derjugin, "Satbeam's first customers came from this sector. The footprint data would also be interesting for uplink stations, for satellite providers and also for SNG operators who need to find the proper footprint for their VSAT systems."

Alexander Derjugin discovered an interesting market segment with Satbeams. A website geared specifically towards the satellite professionals seems to be a very good idea!



■ This is what the home of Alexander Derjugin looks like. A Channelmaster 120cm antenna with a C-band and Ku-band LNB can be seen all the way to the left. This antenna is motorized and can be moved from 57 east to 45 west. A T90 multisatellite antenna is in the center and sports eight LNBs for reception of satellites from 4.8 east to 53 east and all the way to the right is a 125cm antenna for 40 east reception.



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Pepsi's Dishes



Satellite DXers are a rather new species in China. One of the select few is Pepsi in the city of Mengyang of Sichuan province in south-western China. Why would anybody choose the nickname Pepsi, you may ask? Well, that's not difficult to guess: Pepsi used to work for the company by the same name.

■ Where does the DXer live? Easy to guess, it's the building on which antennas can even be seen from the street below. Pepsi's apartment is in this mixed residential and business block, because here he can freely install antennas on the roof.



He has since moved on and now holds a technician's positions at a local packaging company, even though he still sticks to his nickname. We meet Pepsi for lunch at a typical restaurant in his hometown and he tells us how it all began: "I started out in 2004 with a 1.5 m dish which I used to pick up signals from ASIASAT 3 at 105.5° East." It was technology rather than content that got him hooked on this hobby. "I hardly ever watch TV," Pepsi admits, "it's rather the challenge of trying to receive even more satellites that keeps me going." This enthusiasm led to an increasing number of satellite dishes over the years. Next to several small dishes with diameters ranging from 45 to 90 cm Pepsi also uses 1.8 and 2.4 m antennas.

With great expectations and anticipation we take the trip to Pepsi's place in a residential area of the city of Mengyang, some 40 km north of the capital of Sichuan province. Pepsi's apartment is located on the second floor of the building and it becomes evident right upon entering that watching TV is not exactly Pepsi's favourite pastime. Only one TV set can be seen in the living room, but a total of six receivers. Pepsi loves the technical aspects of satellite television, yet could hardly care less about what kind of content is transmitted.

All of his antennas are mounted on the roof of the building's staircase. "Here they don't get in the way of anybody, and nobody gets in my way," Pepsi explains. As a matter of fact, he purposely moved into this area so that he would be able to pursue his hobby without restrictions. "Where I used to live before it was not possible to install large antennas," says Pepsi. "It was my hobby that made me move to Mengyang." Talk about commitment!

Pepsi even spends his spare time helping other people install their satellite dishes and he has become a well-established satellite expert even beyond his city.

Eventually, his hobby might turn into his profession one day. "I am currently working on larger projects too, which involve supplying several apartments



The World of Satellite DXers

Previous TELE-satellite DXer Reports can be Read Here:

<http://www.SatcoDX.net>

■ Pepsi on his way up to the roof of the staircase. The 1.8 m dish points at THAICOM.



with satellite television." It looks like Pepsi will soon be able to make money out of his hobby, for which we wish him good luck.



■ Using an extension rail Pepsi has converted his 2.4 m antenna into a multi-feed dish for reception of nine different satellites.



■ Pepsi presenting his receiver collection in the living room.



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A Satellite Expert's Museum

Alexander Wiese

Over the course of many years satellite expert Bjarne Nielsen has worked up his reputation as Denmark's 'Mr. Satellite'. In retirement now, he has found a new passion in his position as organiser of and driving force behind the 'Radiomuseum' in the small town of Ringsted, not far from the Danish capital Copenhagen. In a TELE-satellite exclusive Bjarne Nielsen opens the museum doors and recalls major events that shaped his life.

Let's start with a remarkable fact: For 15 years Bjarne Nielsen was the publisher and editor-in-chief of Denmark's first and only satellite-related magazine, with the last issue having appeared in the year 2005.

"I published a total of 165 issues," Bjarne Nielsen recalls. "Each magazine issue featured a test report and a company report, as well as an up-to-date frequency chart." A peak circulation of 4000 was printed in 2000 in the heyday of Bjarne's magazine, but towards 2005 this number had declined to 1400 copies. At the same time the Danish postal service decided to increase postage fees with the result that the whole magazine operation had become uneconomical.

What made Bjarne Nielsen create and publish a satellite magazine in the first place? In 1966 he had begun to work as a teacher at the Ringsted technical vocational school, covering the fields of TV and radio engineering – well... what else? One of his students made a career as service manager for Swedish company LUXOR in Motala, which in 1980 was in the process of developing its first satellite receiver. At the time, satellite receivers usually came from the United States.

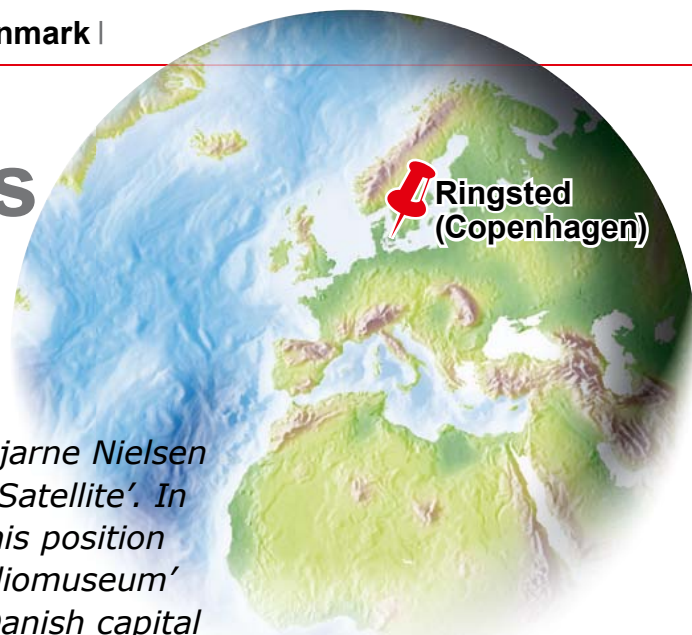
Bjarne Nielsen managed to obtain satellite reception equipment from LUXOR and "in 1982 I was able for the very first time to watch satellite television thanks to a 2-metre dish," he remembers. "I picked up Russian

TV from GORIZONT, transmitted in the 4 GHz range."

Half a year later LUXOR invited him to its Motala headquarters and it was there that Bjarne Nielsen was able to see signals from OTS, the first European broadcasting satellite, with the help of a huge 3-metre antenna.

All his efforts were focused on setting up a dish of his own and by the end of 1983 a 1.8-metre antenna had become an addition to his house to receive CS1 at 13° east.

In case you're still in doubt, we're dealing with a serious case of satellite virus infection here, and in his role as a vocational teacher



■ Three museums in a row in the Danish town of Ringsted: the Radiomuseum (centre), the mill museum (behind) and Ringsted local museum (right). Bjarne Nielsen runs the Radiomuseum.



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1

Bjarne Nielsen took his chances and raised his students' interest for this new technology as well.

However, it didn't stop there. Danish companies dealing with satellite products were quick to see the potential of this dedicated teacher and asked him to organise technical seminars for engineers and installers. "In 1984 and 1985 I held lots of 3-day seminars to teach more than 1000 professional installers how to set up satellite antennas," Bjarne Nielsen proudly states. His school supported these activities as well, as they were counted as part of the teaching process. This eventually led to the establishment of a satellite magazine in 1990. "My school was the official publisher and I was 'only' the editor," he recalls laughingly because nonetheless, all of his free time was put into the magazine.



2

"We even went so far as to stage our own satellite fair at the school," he adds. "It took place in 1990 and we were proud to showcase virtually all Danish satellite companies." The fair was repeated one more time, but as it was only successful from a technical point of view rather than from a financial aspect, it unfortunately had to be stopped after only two events.

Let's move on to an altogether different stage now and find out what in the world made Bjarne Nielsen run his own museum? "By my very nature as a teacher I was in touch with hundreds of young people, all of whom knew that I collected old TV and radio sets. Time and again they would come to school with a disused device, and I was all the more happy for it." In all those years he never had to actually buy a radio or TV, each single one was donated.

In 1998 Bjarne Nielsen came up with the idea of displaying all those marvellous wonders of technology in a dedicated museum, and in 2000 he was able to make that dream a reality. The Radiomuseum Ringsted was ready to open its doors! The building hosting the museum was made available by the municipality of Ringsted and lots of locals offered a helping hand to adapt the place for its new use as a museum.



3

1. Celebrating 110 years: An EDISON phonograph dating back to the year 1900 is one of the collection's highlights. This system uses a wax cylinder to record sound.

2. As early as 1936 company AEG invented a tape recorder. The Radiomuseum features a unit that was manufactured in 1938.

3. The BEOCORD from the year 1948 used steel wire rather than magnetic tape to record voices. "2.2 km of steel wire are wound up on a single roll. The wire is led through the device with a speed of 50 cm per second, which means 2.2 km of wire provide a recording time of one hour," Bjarne Nielsen explains. "By the way, Danish inventor Valdemar Poulsen had this system patented in 1898. At the time, however, the available technology was not ready for real-world implementation. For this you need amplifying which became available only with the invention of tubes."

Satellitentechnik

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RADIO - MODTAGEREN

første apparater i Danmark ca. 1922

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 den første danske radio- og lyd- og billed-
 avis.

Radiofonens Udvikling

- 1889 Heinrich Hertz Teoretisk gennemførte radioafgivelser
- 1895 Guglielmo Marconi Teoretisk gennemførte radioafgivelser
- 1901 Valdemar Poulsen Danmark, første radio (Lange's Radio, J.A. Fleming England opfandt diodenode)
- 1916 Kærlighedskædette opfandt opfandt i England og USA. Første radiofonitidende udgivet i Danmark (S.A.R. Lydavisen)
- 1927 Lige da Bjarne Uge opfandt opfandt i Danmark
- 1928 Mikrowave i Philadelphia (USA) opfandt opfandt
- 1929 Radio i Danmark
- 1930 Lige da Bjarne Uge opfandt opfandt i Danmark
- 1931 Radio i Danmark
- 1932 Radio i Danmark
- 1933 Radio i Danmark
- 1934 Radio i Danmark
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HØJTTALEREN

første i Danmark ca. 1915



1

"Some 500 items are on display here," Bjarne Nielsen explains and directs our attention to a breathtaking range of TV and radio sets. But the real surprise is yet to come: "What you can see here is just 10% of what I have collected – a total of 5000 items are stored in a repository." Now this is quite a revelation – where could Bjarne Nielsen possibly store so many items?

We're wasting our breath here: "In my old school, from which I retired five years ago. Much of the basement there is used up by my TVs and radios," he says and smiles. Indeed, Bjarne Nielsen has collected an almost unbelievable range of different apparatus, and what makes his collection even more unique is the unexpected number of products made by Danish companies. These days only few people are aware that Denmark used to boast a significant TV and radio industry in the past, because today hardly any of these companies are still in business.

Enthusiasm and commitment don't diminish with age, and Bjarne Nielsen is perfect proof of that. He has even started to publish a new magazine, only that this time it deals with historic TV and radio sets. Some may think of anybody with such a passion for old technology as an idiot, and Bjarne Nielsen happily picked up this notion for the title of his magazine. While he could not quite get himself to call it radio idiots, he went for Radioten instead. A community of 'radiots' is in the making and Bjarne Nielsen gets together with like-minded enthusiasts on a regular basis to restore old devices. With a well of personal knowledge and expertise available with his co-collectors and with the help of measurement devices from all times, the results of such restorations are nothing short of impressive.

One of the unique aspects of the Radiomuseum is its technical capability to copy



2

1. This portable radio is impressive proof of the state of technology 75 years ago. It was produced in 1935 and had to do without transistors and microchips of any kind.

2. Danish company RUHE produced this TV set (right) in the year 1950. In 1949 first test broadcasts were transmitted from Copenhagen and these sets were made specifically for receiving these signals. "The official launch of TV in Denmark took place in 1951," Bjarne Nielsen tells us. And what has seemingly fallen out of the TV to the left? "That's the remote control," he replies. What today is a standard feature for home entertainment devices was a genuine sensation at the time. "Of course a remote control in the 1950s was not wireless but rather attached to the main set with a long cable, yet even an early model such as that came with two buttons." One might wonder what the remote control was used for back then. Surely it was for switching channels, right? "Are you kidding?" Bjarne answers. "There was only one channel available in the first years of television. One button was for adjusting volume, the other for brightness." In a time and age with virtually thousands of satellite channels at your fingertips isn't it hard to imagine a time when you had no choice at all?

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1

old video and audio tapes and save them on present-day storage media. "We have at hand video recorders for all systems that have ever been on the market, and naturally we keep these systems operational at all times." Even ancient steel tapes can be played back – which comes as a genuine surprise. "Steel tape was the predecessor of magnetic tape and was used in the 1940s and 1950s."

Time and again audio and video tapes from decades ago pop up and the Radiomuseum is the place to go for playing back or copying their often valuable content. "This can be particularly interesting if the tapes include recordings of company assemblies, for instance, and in some cases such historic content may even have legal ramifications." In cases like this the Radiomuseum even bridges an existing market gap, as there are hardly any official institutions that keep age-old technology up and running the way Bjarne Nielsen does.

In a time and age in which modern satellite receivers are discarded after only a few years of use only to be replaced with yet another new device, a visit to the Radiomuseum in Ringsted is a step back in time. Modern technology is put in perspective when you wander past a sheer endless number of old devices, some of which still working after 100 years – if maintained and serviced properly. Bjarne Nielsen and his helpers definitely know how to do just that. His Radiomuseum is well worth a visit.

More information: www.rfr.dk



2

1. Bjarne Nielsen uses the museum's basement to keep all types of video recorders up and running. All systems are perfectly maintained and can be used at the touch of a button. "Bring us any kind of old video recording and we'll be able to copy the content on DVD," he proudly says.

2. A rare sight: Bjarne Nielsen's fully functional steel tape recorder is a genuine marvel. Even today it can be used to play back steel tape rolls that are 50 years old (like the one he holds in his hands), and to copy them onto present-day storage media.

3. The basement of the vocational school he used to teach at is a maze that serves as storage area for the Ringsted Radiomuseum. Close to 5000 radio and TV sets stand side by side, including the first HDTV set made in Europe, which used the D2-MAC standard at the time. While this transmission standard is long gone, the TV set remains a reminder of technical innovation in days gone by.

4. Of course, old satellite technology is a given for Bjarne Nielsen too. Here he is seen next to an old presentation antenna made by TRIAX, with the TRIASAT 2000 analogue receiver from 1990 in his hand.

3





■ DVB-T

MPEG-2

- Algeria
- Albania
- Australia
- Austria
- Belgium
- Croatia**
- Denmark**
- Finland**
- France
- French Guyana
- Germany*
- Greece*
- Indonesia
- Ireland
- Italy**
- Luxembourg
- Morocco
- Namibia
- Netherlands
- Sweden*/**
- Switzerland
- Tunisia
- UK**

* some DVB-T MPEG-4

** some DVB-T2

* some DVB-T MPEG-2

** some DVB-T2

■ DVB-T

MPEG-4

- Azerbaijan
- Belarus*
- Bulgaria
- Burundi
- Central African Republic
- Colombia
- Czech**
- Estonia**
- Ghana
- Guinea
- Hungary**
- Iceland
- India
- Iran
- Israel
- Kenya
- Latvia
- Lithuania
- Macedonia
- Malaysia
- Mauritius
- New Zealand
- Nigeria
- Norway
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


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| Dominican R. | Japan | Argentina | |
| Guatemala | | Bolivia | |
| Honduras | | Brazil | |
| Mexico | | Chile | |
| USA | | Ecuador | |
| | | Paraguay | |
| | | Peru | |
| | | Venezuela | |





Edited by
Branislav Pekic

EUROPE

GERMANY

OVER 1 MILLION CARDS SHIPPED FOR HD+

In the German market, HD+, the high definition services platform, has enjoyed considerable success, with over 1 million smart cards now already shipped to equipment manufacturers. With a broad range of some 20 HD+ set top box models available, the offer can also be accessed with other receivers via a CI+ module, of which over 100,000 have been sold. SES Astra is managing the HD+ platform for commercial HD broadcasting in Germany.

HUNGARY

ANTENNA HUNGARIA TESTING 3DTV WITHOUT GLASSES

Antenna Hungária and iPont have concluded a 3DTV test, broadcasting 3D video content through a DVB-T system and visualizing it on a special "glass-free" device. The software from iPont allows users to watch TV in 3D without wearing special glasses. The video content was broadcast in FullHD format with 8MBit/s speed.

SCANDINAVIA

HDTV BOOSTS TELENOR REVENUE

Telenor Satellite Broadcasting (TSB) revenues increased 6.1% to US\$ 43.9 million in its 2010 second quarter ending in June. TSB said its revenues have been driven by the continued growth of its HDTV services in the Nordic region, as well as price increases for service delivery. Following the launch of the Thor 6 satellite last year, the operator is likely to announce a follow-up satellite in the near future due to better than expected take-up of capacity on Thor 6.

SPAIN

SES ASTRA HELPS SOGECABLE BOOST HD DEPLOYMENT

SES Astra is further intensifying its cooperation with Sogecable and supporting the development of its HD DTH offer. As part of the cooperation, SES Astra is providing two additional satellite transponders to Sogecable in 2010 at its 19.2 degrees East orbital position. SES Astra is the leading HD platform in Europe, with 135 HD channels and around six million HD viewers on its satellite fleet.

TURKEY

BBC HD LAUNCHES ON TURKSAT

BBC HD has launched on satellite operator Turksat's digital cable network, bringing hit shows all subtitled in Turkish. BBC HD becomes the second BBC-branded channel to launch in Turkey, with BBC Entertainment already on Turksat, TT Net and Digiturk TV. The HD channel also airs in Poland,

Australia and Scandinavia. Turksat's cable platform claims it now has more than 1.2 million subscribers.

UNITED KINGDOM

CHANNEL FIVE ABANDONS PROJECT CANVAS

Channel Five has pulled out of Project Canvas, the BBC-backed venture to bring VOD to Freeview and Freesat. Five, which has been put up for sale by its parent company RTL, is one of seven partners in the venture, which is expected to launch next year. One of the conditions each partner has to adhere to is to fund an equal share of the development costs. The BBC Trust has said that the cost of Project Canvas, including development, launch, and the first four years' running costs, will be £115.6 million. Meanwhile, Five HD launched on satellite platform Sky+HD and cable platform Virgin Media's V+HD service.

VIRGIN MEDIA BOOSTED BY HD UPTAKE

Virgin Media has posted strong 2Q results, with revenues up 7.1% to £ 964 million thanks to a notable increase in HD customers. It said about 260,000 customers signed up for HDTV in the quarter, a year-on-year increase of 79%, taking its total HD user base to 1.2 million. Virgin Media is currently offering a total of 26 HD channels.

BSKYB TO LAUNCH 3D NETWORK

BSkyB will launch its 3D network on October 1 and has signed deals with Disney, Fox, Universal, Warner Brothers, Paramount and DreamWorks to "showcase the very best of Hollywood in 3D." Other programming includes live coverage of golf's Ryder Cup and English Premier League football. Sky 3D

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Overview

The NetUP IPTV Combine 4x is an all-in-one solution designed to provide IPTV and VOD in small deployments of up to 1000 users, such as for the hospitality industry. The device includes Middleware able to handle up to 1000 IP set-top boxes, DVB to IP gateway with 4 DVB-S/S2 inputs and 4 CI slots, VOD server for 50 concurrent streams with 1 TB of HDD space for video content storage, and IPTV Billing system, all already installed and integrated. The solution allows to deploy IPTV promptly and at minimal costs. IPTV Combine perfectly suits hotels, business centers, educational institutions, hospitals, yachts, housing estates, etc.

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did not say in which markets the channels will be available. The cable operator still provides less than 50 HD channels in many small and mid-size markets due to bandwidth constraints and other issues. Comcast has frequently issued national press releases saying it will carry a certain HD channel, but it might take months (if then) before it's actually added to each market.

DIRECTV ADDS FOX SOCCER HD

DirecTV has added the Fox Soccer Channel in High-Definition just in time for the start of the English Premier League season. The Fox Soccer Channel has the broadcast rights to carry EPL games. DirecTV is also working to add Fox Soccer Plus in HD as well.

VERIZON ADDS TWO NEW HD CHANNELS TO FIOS TV

Verizon's FiOS TV customers received two new HD channels in July, as the company launched Nat Geo WILD HD and Investigation Discovery HD. These two channels join FiOS TV's channel lineup which includes up to 142 HD channels and more than 3,300 HD VOD titles every month.

LATIN AMERICA

BRAZIL

EMBRATEL OFFERS 9 HDTV CHANNELS TO SUBSCRIBERS

The Via Embratel HDTV service started being marketed in June, initially in Rio de Janeiro and Sao Paulo. A total of nine HD channels are available initially. To receive the free-to-air HD channels, subscribers must request a terrestrial module,

which is coupled to high-definition decoder, as is the case with Sky HDTV. According to Antonio Joao, executive director of Via Embratel, the HD decoder produced by Pace will undergo constant updates.

NET CLAIMS LEADERSHIP POSITION IN HD SEGMENT

According to the president of Net Servicos, the Brazilian triple-play operator is the absolute leader in the high definition segment, increasingly moving away from second placed Sky Brasil. Speaking during a conference call with journalists, he did not want to mention the number of subscribers, saying only that in June the growth in HD was 44 percent higher than expected for the month. The manager is betting that the growth follows the sales of HD TV sets and that the acceleration of sales of subscriptions is maintained even after the World Cup.

CHILE

MOVISTAR LAUNCHES HD PACKAGE

Spanish operator Movistar (Telefonica group) has launched a package of 9 HD channels via satellite, which will thus be added to the packages that this operator already offers in this South American country. The Movistar TV HD Plus service is sold from €10 per month (depending on the chosen receiver) and can be received through two terminals: one simple and one with integrated internal hard drive.

ASIA & PACIFIC

WORLD CUP BOOSTS HDTV SET SALES

According to market research firm GfK Asia, in the first week of June alone, combined sales of HDTVs in eight Asian markets — Malaysia, Hong

Kong, Indonesia, Thailand, Singapore, South Korea, Taiwan, and Vietnam reached almost 90,000 units, hitting a total value in excess of RM 235.4million (US\$74 million). GfK Asia said this reflected a massive 250% growth in units sold compared with the same period last year.

INDIA

OPERATORS LAUNCH HDTV PRICE WAR ONLY TWO CHANNELS AVAILABLE IN HD IN INDIA

A price war took place in the DTH segment during the World Cup in South Africa, with broadcasters that air HD content slashing rates by 50%. Tata Sky launched HD services at Rs 2,599, forcing market leader Dish TV to cut prices by more than 50% within days of launch. The competition has intensified as rivals such as Videocon and Airtel launching similar services. Currently, only a dozen or so channels such as Discovery, National Geographic, Colors, Zee TV, Star Plus, Star Movies and Sun TV are available in HD, while another 12 or so channels are expected to be added in the coming months.

JAPAN

JAPANESE HAVE NO PLANS TO ACQUIRE 3DTV GLASSES

Almost 70% of Japanese consumers have said they have no plans to buy a 3D TV for their home. Respondents said they were turned off by the special viewing glasses and also blamed steep price tags and scarcity of available content for their lack of interest, the survey by the price comparison website operator Kakaku.com showed. Of those who have no plans to buy a 3D TV, nearly 70% cited the hassle of wearing special

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glasses, 57% said prices were too high and close to 40% said there was not enough 3D content.

SKY PERFECTV LAUNCHES 3D FOOTBALL

Sky Perfectv launched Channel 3D 169, Japan's first dedicated 3D channel. The platform plans to offer 18 J League games live in 3D this season. Sky Perfect parent company JSAT has 3.7 million subs.

SINGAPORE

SINGTEL FIRST IN REGION TO DELIVER 3D

Singapore Telecommunications (SingTel) claims it is the first operator in the region to enable content providers and TV broadcasters to deliver 3D TV content to consumers in Singapore and abroad via high-speed satellite and land-based platforms. SingTel, which is one of the partners in 3-D TV trials, said it would play a 'vital' role by providing the infrastructure and capabilities to allow local broadcasters, such as mio TV. This is possible with its state-of-the-art 3-D-enabled broadcast play-out facility, which is housed at the Bukit Timah Satellite Earth Station, the first of its kind in Asia Pacific.

SOUTH KOREA

WORLD CUP BOOSTS 3D TV SALES

South Korean firms have enjoyed a boom in sales of 3D TV sets thanks to rising demand stoked by the World Cup in South Africa. Samsung Electronics has sold more than 26,000 3D TVs in the domestic market so far this year, including 6,000 in June, according to a company spokesman. Samsung aims to sell some 600,000 3D TVs at home and abroad in the first half of this year and 2.6 million by the end of this year. Samsung's domestic rival LG Electronics also saw a jump in 3D TV sales

in June, selling more than 3,000 units at home. It plans to release 3D models abroad later this year.

FULL 3D TV TO ARRIVE IN 2-3 YEARS

Korean audiences could receive full 3D TV services in two to three years, according to the head of public broadcaster KBS. Kim In-Kyu believes that this as a likely timetable if the government's trial of full HD terrestrial broadcasting in October was successful. In an interview with ABU News, Dr Kim said KBS had widened the interest in 3D TV by successfully carrying out 3D live broadcasts of sports events on a terrestrial channel for the first time in the world in May. He added that the number of 3D TV sets sold worldwide exceeds anyone's expectations and those more than 80 million 3D TV sets sold by the end of 2015.

TAIWAN

ECHOSTAR LAUNCHES HDTV SERVICE

EchoStar International Corporation has launched DishHD, a new satellite TV service that provides a wide variety of HD video channels distributed directly to consumer homes via a small satellite antenna and a digital set-top box.

THAILAND

TRUEVISIONS PLANS DOZENS OF HDTV CHANNELS

TrueVisions, the pay-TV subsidiary of True Corporation, is moving aggressively to promote its HDTV service to expand its foothold in the new segment, by launching three such channels out of its 110 cable programmes in total. True is confident about the HDTV market potential in Thailand after signing up 12,000 subscribers to the service during the

World Cup tournament. The company planned to introduce dozens of HDTV channels this year under its annual budget of 500 million baht.

AFRICA

SOUTH AFRICA

MULTICHOICE TO LAUNCH HD MOVIE CHANNEL IN OCTOBER

MultiChoice has announced that subscribers can look forward to a new HD channel on October 1. The channel will be called M-Net Movies HD and will compliment the three existing channels already available to premium subscribers: M-Net HD, Discovery HD, and SuperSport HD. Another HD sports channel which will initially be dedicated to English Premier League Football, called SuperSport HD 2, launched in August.

WORLD

DISCOVERY ANNOUNCES GLOBAL 3D PLANS

Discovery Communications' 3D channel, due to bow in the U.S. early next year, will roll out more slowly around the globe, according to CEO David Zaslav. The high costs involved in 3D and the dearth of content were the main reasons why Discovery had teamed up with Sony and Imax on the 3D channel. One third of the content on the new network would be provided by Discovery, but not all its programming would work in the format. Zaslav added that there was a chance that Discovery 3D could launch before the end of the year, but a 2011 start-date was more likely.

DishPointer AR

See where to point your dish, live on the iPhone screen!

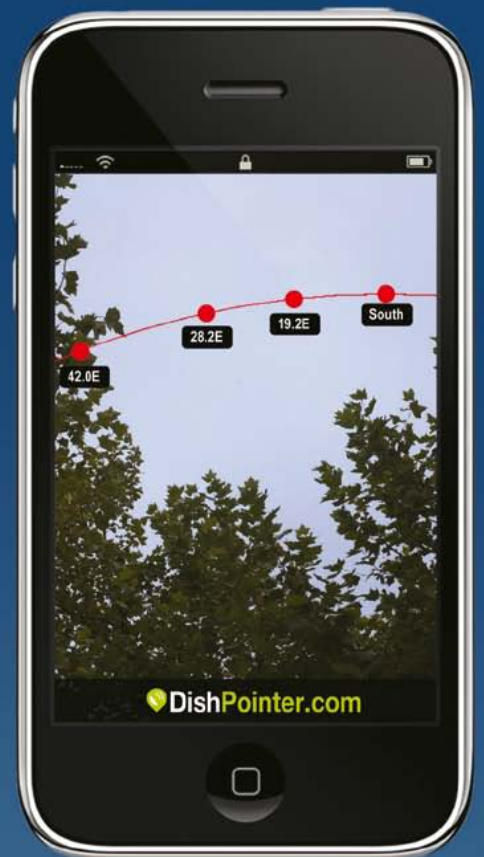
The revolutionary DishPointer Augmented Reality app is now available on the app store. Just point your iPhone anywhere towards the sky and see all the satellites lined up on the live video screen.

See the Video

See DishPointer AR in action on YouTube!

DishPointer is the world's No.1 satellite dish pointing site, offering custom built tools for mobile devices or websites to businesses. For more information, visit www.dishpointer.com.

This app uses the iPhones GPS, motion sensor and compass to calculate all the satellite positions and overlays them on the camera. At a glance you will see where to point the dish and any obstacles blocking the line of sight.



References



www.dishpointer.com
info@dishpointer.com

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Edited by
Branislav Pekic

EUROPE

THALES ALENIA SPACE TO BUILD EUTELSAT W6A SATELLITE

Eutelsat Communications has selected Thales Alenia Space to build a 40-transponder Ku-band satellite enabling a 50% increase in capacity operated at its 21.5° East orbital position. Scheduled for launch in third quarter 2012, the satellite will replace Eutelsat W6. The new satellite will be based on the Thales Alenia Space Spacebus C3 platform, with a scheduled in-orbit lifetime exceeding 15 years. It will be equipped with one broad footprint covering Europe, North Africa and Central Asia, and two dedicated high-power beams for regional coverage of North Africa and the Middle East.

HISPASAT AWARDS SATELLITE CONTRACT TO SPACE SYSTEMS/LORAL

Space Systems/Loral (SS/L) has been awarded a contract to manufacture a new spacecraft for Hispasat. The Amazonas 3 satellite is designed to replace Amazonas 1 at 61 degrees West and is scheduled to be available for launch in 2012. The new satellite will be capable of operating up to 33 simultaneous Ku-band transponders and 19 simultaneous C-band transponders over Europe and North and South America. It will have a launch mass of approximately five tons and will produce nearly 14-kW of power at end of life.

NORTH AMERICA

SEA LAUNCH TO LAUNCH 3 SATELLITES FOR ECHOSTAR

Sea Launch Company has signed an agreement with a subsidiary of EchoStar Satellite Services, providing EchoStar with the ability to launch up to three satellites on the Sea Launch system. Sea Launch expects to launch the satellites using the reliable Zenit-3SL launch vehicle from its launch site at 154 degrees West. Sea Launch has successfully launched previous EchoStar satellites, including EchoStar IX in 2003.

SOUTH AMERICA

ARGENTINA TO LAUNCH ARSAT-1 IN 2012

Argentina's satellite operator Arsat (Empresa Argentina de Soluciones Satelitales, Sociedad Anonima) has chosen Arianespace for the launch of its satellite Arsat-1, scheduled for mid-2012 through an Ariane 5 or Soyuz from Kourou (French Guiana). Made by the Argentine company INVAP and with a take-off weight of 2,900 kg, it will be fitted with 24 Ku-band transponders, providing a wide range of telecommunications services, data transmission and TV for the Argentine, Chilean, Uruguayan and Paraguayan markets.

ASIA & PACIFIC

ARABSAT 5A SUCCESSFULLY LAUNCHED

The Arabsat 5A satellite was successfully launched on June 27 from French Guyana by the Ariane 5 rocket. Arabsat 5A, manufactured by French companies Astrium and Thales, will be located on the 30.5 degrees East orbital position. The satellite

will cover the whole African continent for the first time in addition to Arabsat's usual coverage of the Middle East and large parts of Asia and Europe.

EUTELSAT AND ICTQATAR SELECT SS/LORAL FOR NEW SATELLITE

Eutelsat Communications and ictQATAR (representing the State of Qatar) have selected Space Systems/Loral to build the satellite they will jointly own and operate at the 25.5° East location. Due to enter into service in early 2013, this satellite will provide coverage across the Middle East, North Africa and Central Asia to follow on from Eutelsat's Eurobird 2 satellite, which is currently operated at 25.5° East. In addition to securing Ku-band continuity for Eutelsat and additional Ku-band resources for ictQATAR, it will initiate a Ka-band capability.

LOCAL BILLIONAIRE TO BUY MEASAT

Malaysian billionaire Ananda Krishnan announced plans to buy out satellite operator Measat Global Bhd. for US\$ 207 million to secure full control of the company. The Star newspaper said Krishnan's decision to take Measat Global Bhd. private was made after "considering the huge capital that needs to be ploughed into Measat... estimated at some US\$ 1 billion over the course of the next two or three years".

AFRICA

WORLDSPACE COULD RELAUNCH

WorldSpace plans to relaunch its services in South Africa if a bid by former chairman Noah Samara to buy the company is approved, according to local daily "Business Day". WorldSpace, whose satellite radio service was available in Europe, Africa and Asia, filed for bankruptcy protection in 2008 after repeated failures to meet debt obligations.

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SATBEAMS

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TP	En	Package	Res.	Compression	V_PID	A_PID
13° E - Hotbird 6 (Hot Bird 6) / Hotbird 8 (Hot Bird 8) / Hotbird 9 (Hot Bird 9)	[x]	[x]	[x]	[x]	[x]	[x]
[111], Hotbird 8 (13° E), Europe8, QPSK, DVB, Arqna (318/11000) (Filtered)	[x]	[x]	[x]	[x]	[x]	[x]
[133], Hotbird 8 (13° E), Europe8, QPSK, DVB, GlobeCast (318/12200) (Filtered)	[x]	[x]	[x]	[x]	[x]	[x]
[134], Hotbird 8 (13° E), Europe8, QPSK, DVB, R.Rosat Global Network (318/12300) (Filtered)	[x]	[x]	[x]	[x]	[x]	[x]
[143], Hotbird 8 (13° E), Europe8, QPSK, DVB, SatLink (318/14000) (Filtered)	[x]	[x]	[x]	[x]	[x]	[x]
[148], Hotbird 8 (13° E), Europe8, QPSK, DVB, SatLink (318/14000) (Filtered)	[x]	[x]	[x]	[x]	[x]	[x]

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INTELSAT 10-02 - Europe, Middle East, North India ◀ 359.2 East (000.8 West)

C-Band: INTELSAT 10-02 - Europe, Africa, South East Asia ◀ 359.2 East (000.8 West)

THOR 5, 6 - Europe ◀ 359.2 East (000.8 West)

AMOS 2, 3 - Europe, Middle East ◀ 356.0 East (004.0 West)

THOR 3 - Europe ◀ 356.0 East (004.0 West)

ATLANTIC BIRD 3 - Europe ◀ 355.0 East (005.0 West)

C-Band: ATLANTIC BIRD 3 - Africa, Europe, Middle America ◀ 355.0 East (005.0 West)

NILESAT 101, 102, ATLANTIC BIRD 4A - Middle East ◀ 353.0 East (007.0 West)

TELECOM 2D - France ◀ 352.0 East (008.0 West)

C-Band: TELECOM 2D - Europe ◀ 352.0 East (008.0 West)

ATLANTIC BIRD 2 - Europe, America, Middle East ◀ 352.0 East (008.0 West)

EXPRESS AM44 - Middle East ◀ 349.0 East (011.0 West)

ATLANTIC BIRD 1 - Europe, America ◀ 347.5 East (012.5 West)

C-Band: EXPRESS A4 - Europe ◀ 346.0 East (014.0 West)

TELSTAR 12 - Europe, South Africa, Am. ◀ 345.0 East (015.0 West)

INTELSAT 901 - Europe, Middle East ◀ 342.0 East (018.0 West)

E-Band: INTELSAT 901 - Europe, Africa, Atlantic Ocean Region ◀ 342.0 East (018.0 West)

C-Band: NSS 5 - Africa ◀ 340.0 East (020.0 West)

NSS 7 - Europe, Middle East, Africa, America ◀ 338.0 East (022.0 West)

C-Band: NSS 7 - Europe, Africa, America ◀ 338.0 East (022.0 West)

INTELSAT 905 - Europe ◀ 335.5 East (024.5 West)

C-Band: INTELSAT 905 - Europe, Africa, America ◀ 335.5 East (024.5 West)

INTELSAT 907 - Europe ◀ 332.5 East (027.5 West)

C-Band: INTELSAT 907 - Europe, Africa, America ◀ 332.5 East (027.5 West)

HISPASAT 1C, 1D - Europe, America ◀ 330.0 East (030.0 West)

INTELSAT 903 - Europe ◀ 325.5 East (034.5 West)

C-Band: INTELSAT 903 - Europe ◀ 325.5 East (034.5 West)

TELSTAR 11N - Europe, Africa ◀ 322.5 East (037.5 West)

C-Band: NSS 10 - Europe, Africa, America ◀ 322.5 East (037.5 West)

NSS 806 - Europe ◀ 319.5 East (040.5 West)

C-Band: NSS 806 - America, Europe ◀ 319.5 East (040.5 West)

C-Band: INTELSAT 3R - Europe, North America ◀ 317.0 East (043.0 West)

INTELSAT 11 - Brazil ◀ 317.0 East (043.0 West)

C-Band: INTELSAT 11 - Brazil ◀ 315.0 East (043.0 West)

INTELSAT 14 - Europe, North Africa, South America ◀ 315.0 East (045.0 West)

C-Band: INTELSAT 14 - America ◀ 315.0 East (045.0 West)

INTELSAT 1R - America ◀ 315.0 East (050.0 West)

C-Band: INTELSAT 1R - America ◀ 315.0 East (045.0 West)

INTELSAT 707 - America ◀ 307.0 East (053.0 West)

C-Band: INTELSAT 707 - America, Africa ◀ 307.0 East (053.0 West)

C-Band: INTELSAT 805 - America ◀ 304.5 East (055.5 West)

INTELSAT 9 - Mexico, Brazil, Europe ◀ 302.0 East (058.0 West)

C-Band: INTELSAT 9 - America ◀ 302.0 East (058.0 West)

C-Band: INTELSAT 16 - America ◀ 302.0 East (058.0 West)

AMAZONAS 1 - Brazil, South America ◀ 299.0 East (061.0 West)

C-Band: AMAZONAS 1 - America ◀ 299.0 East (061.0 West)

AMAZONAS 2 - North America ◀ 299.0 East (061.0 West)

ECHOSTAR 3,6,12 - Conus ◀ 298.5 East (061.5 West)

TELSTAR 14 - Brazil, Mercosul ◀ 297.0 East (063.0 West)

STARONE C1 - Brazil ◀ 295.0 East (065.0 West)

C-Band: STARONE C1 - South America ◀ 295.0 East (065.0 West)

STARONE C2 - Brazil ◀ 290.0 East (070.0 West)

C-Band: STARONE C2 - South America ◀ 290.0 East (070.0 West)

AMC 6 - North America ◀ 288.0 East (072.0 West)

C-Band: AMC 6 - North America ◀ 288.0 East (072.0 West)

DIRECTV 1R, NIMIQ 5 - Conus ◀ 287.5 East (072.5 West)

HORIZONS 2 - North America ◀ 286.0 East (074.0 West)

C-Band: BRASILSAT B3 - Brazil ◀ 285.0 East (075.0 West)

ECHOSTAR 4, 8 - America, Mexico ◀ 283.0 East (077.0 West)

SIMON BOLIVAR - South America ◀ 282.0 East (078.0 West)

C-Band: SIMON BOLIVAR - South America ◀ 282.0 East (078.0 West)

AMC 2,5 - North America ◀ 281.0 East (079.0 West)

NIMIQ 4 - Canada ◀ 278.0 East (082.0 West)

AMC 9 - North America ◀ 277.0 East (083.0 West)

C-Band: BRASILSAT B4 - Brazil ◀ 276.0 East (084.0 West)

AMC 16 - North America ◀ 275.0 East (085.0 West)

AMC 3 - North America ◀ 273.0 East (087.0 West)

C-Band: AMC 3 - North America ◀ 273.0 East (087.0 West)

GALAXY 28 - America ◀ 271.0 East (089.0 West)

C-Band: GALAXY 28 - America ◀ 271.0 East (089.0 West)

NIMIQ 1 - Canada ◀ 269.0 East (091.0 West)

GALAXY 17 - North America ◀ 269.0 East (091.0 West)

C-Band: GALAXY 17 - North America ◀ 269.0 East (091.0 West)

GALAXY 25 - North America ◀ 266.9 East (093.1 West)

GALAXY 3C - North America ◀ 265.0 East (095.0 West)

C-Band: GALAXY 3C - North America ◀ 265.0 East (095.0 West)

GALAXY 19 - North America ◀ 263.0 East (097.0 West)

C-Band: GALAXY 19 - North America ◀ 263.0 East (097.0 West)

GALAXY 16 - North America ◀ 261.0 East (099.0 West)

C-Band: GALAXY 16 - North America ◀ 261.0 East (099.0 West)

DIRECTV 4S, 8 - America ◀ 259.0 East (101.0 West)

SES 1 - North America ◀ 259.0 East (101.0 West)

C-Band: SES 1 - North America ◀ 259.0 East (101.0 West)

AMC 1 - North America ◀ 257.0 East (103.0 West)

C-Band: AMC 1 - North America ◀ 257.0 East (103.0 West)

AMC 15 - North America ◀ 255.0 East (105.0 West)

C-Band: AMC 18 - North America ◀ 255.0 East (105.0 West)

ANIK F1R - North America ◀ 252.7 East (107.3 West)

C-Band: ANIK F1R - North America ◀ 252.7 East (107.3 West)

C-Band: ANIK F1 - South America ◀ 252.7 East (107.3 West)

ECHOSTAR 10, 11 - America ◀ 250.0 East (110.0 West)

DIRECTV 5 - America ◀ 250.0 East (110.0 West)

ANIK F2 - North America ◀ 248.9 East (111.1 West)

C-Band: ANIK F2 - North America ◀ 248.9 East (111.1 West)

SATMEX 6 - America ◀ 247.0 East (113.0 West)

C-Band: SATMEX 6 - America ◀ 247.0 East (113.0 West)

SATMEX 5 - America ◀ 243.2 East (116.8 West)

C-Band: SATMEX 5 - America ◀ 243.2 East (116.8 West)

ANIK F3 - Conus ◀ 241.0 East (119.0 West)

C-Band: ANIK F3 - America ◀ 241.0 East (119.0 West)

ECHOSTAR 14 - Conus ◀ 241.0 East (119.0 West)

DIRECTV 7S - Conus ◀ 241.0 East (119.0 West)

ECHOSTAR 9, GALAXY 23 - North America ◀ 239.0 East (121.0 West)

C-Band: ECHOSTAR 9, GALAXY 23 - North America ◀ 239.0 East (121.0 West)

GALAXY 18 - North America ◀ 237.0 East (123.0 West)

C-Band: GALAXY 18 - North America ◀ 237.0 East (123.0 West)

C-Band: GALAXY 14 - North America ◀ 235.0 East (125.0 West)

AMC 21 - North America ◀ 235.0 East (125.0 West)

GALAXY 13, HORIZONS 1 - North America ◀ 233.0 East (127.0 West)

C-Band: GALAXY 13, HORIZONS 1 - North America ◀ 233.0 East (127.0 West)

CIEL 2 - America ◀ 231.0 East (129.0 West)

GALAXY 27 - North America ◀ 231.0 East (129.0 West)

C-Band: AMC 11 - North America ◀ 229.0 East (131.0 West)

C-Band: GALAXY 12 - North America ◀ 227.0 East (133.0 West)

C-Band: AMC 10 - North America ◀ 225.0 East (135.0 West)

C-Band: AMC 7 - North America ◀ 223.0 East (137.0 West)

C-Band: AMC 8 - North America ◀ 221.0 East (139.0 West)

Satellites of the World



002.0 East ▶ ASTRA 1C - Europe

002.8 East ▶ C-Band: Rascom 1 - Africa

004.0 East ▶ EUROBIIRD 4A - Europe, Asia

004.8 East ▶ SIRIUS 4 - Europe, South Africa

007.0 East ▶ EUTELSAT W3A - Europe, Africa

009.0 East ▶ EUROBIIRD 9A - Europe

010.0 East ▶ EUTELSAT W2A - Europe

010.0 East ▶ C-Band: EUTELSAT W2A - Global

013.0 East ▶ HOTBIIRD 6,8,9 - Europe, Middle East

015.8 East ▶ EUTELSAT W2M - Europe, Madagascar

015.8 East ▶ EUROBIIRD 16 - Europe, Madagascar

015.8 East ▶ EUTELSAT SESAT 1 - Europe

017.0 East ▶ Amos 5I - North Africa, Middle East

017.0 East ▶ C-Band: Amos 5I - Africa, Middle East

019.2 East ▶ ASTRA 1H,1K,1L,1M - Europe

021.6 East ▶ EUTELSAT W6 - Europe, Asia, West Africa

023.5 East ▶ ASTRA 3A,3B - Europe

025.5 East ▶ EUROBIIRD 2 - Europe, Asia

026.0 East ▶ BADR 4,5,6 - North Africa, Middle East

028.2 East ▶ EUROBIIRD 1 - Europe

028.2 East ▶ ASTRA 2B - Europe, Nigeria

028.2 East ▶ ASTRA 2A,2D - Europe

030.5 East ▶ ARABSAT 2B - Middle East

030.5 East ▶ C-Band: ARABSAT 2B - Asia,Middle East

030.5 East ▶ ARABSAT 5A - Middle East

030.5 East ▶ C-Band: ARABSAT 5A - Asia,Middle East

031.0 East ▶ TURKSAT 1C - Europe, Asia

031.5 East ▶ ASTRA 1G - Europe

033.0 East ▶ EUROBIIRD 3 - Europe

033.0 East ▶ INTELSAT 802 - Africa

033.0 East ▶ C-Band: INTELSAT 802 - Europe

036.0 East ▶ EUTELSAT W7 - Europe, South Africa, Asia, Russia

036.0 East ▶ EUTELSAT W4 - Russia, Nigeria, Africa

038.0 East ▶ PAKSAT 1 - Pakistan, North India

038.0 East ▶ C-Band: PAKSAT 1 - Pakistan, India, Middle East, Africa

039.0 East ▶ HELLAS SAT 2 - Europe, Middle East, Asia

040.0 East ▶ EXPRESS AM1 - Europe, Russia

040.0 East ▶ C-Band: EXPRESS AM1 - Europe, Russia

042.0 East ▶ TURKSAT 2A - Europe, Russia

042.0 East ▶ TURKSAT 3A - Europe, Russia, North India

045.0 East ▶ INTELSAT 12 - India, South Africa, Middle East, Europe

049.0 East ▶ C-Band: YAMAL 202 - Global

053.0 East ▶ EXPRESS AM22 -Europe, Middle East, North India

054.8 East ▶ INTELSAT 709 -Europe

055.0 East ▶ C-Band: INSAT 3E - India

056.0 East ▶ BONUM 1 - East Russia

057.0 East ▶ NSS 12 - Europe, Russia, Africa, India

057.0 East ▶ C-Band: NSS 12 - Europe, Russia, Africa, India, Global

060.0 East ▶ INTELSAT 904 - Europe

060.0 East ▶ C-Band: INTELSAT 904 - Europe, Africa, Global

062.0 East ▶ INTELSAT 902 - Europe, Middle East

062.0 East ▶ C-Band: INTELSAT 902 - Europe, China, Australia, South Africa, Global

064.2 East ▶ C-Band: INTELSAT 906 - Europe, Africa, South India, Global

066.0 East ▶ INTELSAT 702 -Europe,Russia

068.5 East ▶ INTELSAT 7 - South Africa

068.5 East ▶ INTELSAT 10 - Africa, Europe, Middle East

068.5 East ▶ C-Band: INTELSAT 10 - Global

070.5 East ▶ EUTELSAT W5 - Europe,Middle East, India

074.0 East ▶ EDUSAT, INSAT 4CR - India

074.0 East ▶ C-Band: INSAT 3C - India

075.0 East ▶ ABS-1 - Europe, Asia, Middle East

075.0 East ▶ C-Band: ABS-1 - Global

075.0 East ▶ EUTELSAT W75 - Middle East, North India, China

076.5 East ▶ APSTAR 2R - North East Asia

076.5 East ▶ C-Band: APSTAR 2R - Global

078.5 East ▶ C-Band: THAICOM 2 - Thailand ,East Asia

078.5 East ▶ THAICOM 5 - Thailand

078.5 East ▶ C-Band: THAICOM 5 - India,China,Thailand, Global

080.0 East ▶ EXPRESS AM2 - Russia, Europe

080.0 East ▶ C-Band: EXPRESS MD1 - Russia, North India

083.0 East ▶ INSAT 4A - India

083.0 East ▶ C-Band: INSAT 4A - India, Middle East

083.0 East ▶ INSAT 3B - India

083.0 East ▶ C-Band: INSAT 2E - Asia, Middle East, Europe

085.2 East ▶ INTELSAT 15 - Middle East

087.5 East ▶ C-Band: CHINASAT 5A - China, India, Middle East

088.0 East ▶ ST 1 - India, Malaysia

088.0 East ▶ C-Band: ST 1 - India, Thailand

090.0 East ▶ YAMAL 201 - Russia, North India

090.0 East ▶ C-Band: YAMAL 201 - Russia, North India

091.5 East ▶ MEASAT 3 - Malaysia, South Asia

091.5 East ▶ C-Band: MEASAT 3 -Global, Thailand, Australia, East Asia

091.5 East ▶ C-Band: MEASAT 3A -Global

092.2 East ▶ CHINASAT 9 - China

093.5 East ▶ INSAT 3A,4B - India

093.5 East ▶ C-Band: INSAT 3A,4B - India, Middle East

095.0 East ▶ NSS 6 - India, Middle East, South Africa, North East & East Asia, Australia

096.5 East ▶ C-Band: EXPRESS AM 33 - Asia, Russia,China

100.5 East ▶ ASIASAT 5 - East Asia, India, Middle East, Thailand

100.5 East ▶ C-Band: ASIASAT 5 - Global

103.0 East ▶ C-Band: EXPRESS A2 - Russia, China

105.5 East ▶ ASIASAT 3S - East Asia, South Asia, Australia

105.5 East ▶ C-Band: ASIASAT 3S - Global

108.0 East ▶ NSS 11 - South Asia, North East Asia, China

108.0 East ▶ C-Band: TELKOM 1 - Indonesia

110.0 East ▶ BSAT 1A,2A,3A, N-SAT 110 - Japan

110.5 East ▶ C-Band: CHINASAT 5B - China, Asia Pacific

113.0 East ▶ KOREASAT 5 - South Korea, North East Asia

113.0 East ▶ C-Band: PALAPA D - Asia, Australia

115.5 East ▶ C-Band: CHINASAT 6B - Global

116.0 East ▶ ABS 7 - South Korea

118.0 East ▶ C-Band: TELKOM 2 - India, Thailand, Malaysia

122.0 East ▶ ASIASAT 4 - East Asia, Australia

122.0 East ▶ C-Band: ASIASAT 4 - Global

124.0 East ▶ JCSAT 4A - Japan

125.0 East ▶ C-Band: CHINASAT 5C - China

128.0 East ▶ JCSAT 3A - Japan

128.0 East ▶ C-Band: JCSAT 3A - Asia

132.0 East ▶ VINASAT 1 - Vietnam

132.0 East ▶ C-Band:VINASAT 1 - Asia, Australia

132.0 East ▶ JCSAT 5A - Japan

134.0 East ▶ APSTAR 6 - China

134.0 East ▶ C-Band: APSTAR 6 - Asia, Australia

138.0 East ▶ TELSTAR 18 - India, China

138.0 East ▶ C-Band: TELSTAR 18 - Asia, Australia

140.0 East ▶ EXPRESS AM3 - Russia, China

140.0 East ▶ C-Band: EXPRESS AM3 - Russia, China

144.0 East ▶ SUPERBIIRD C2 - Japan

146.0 East ▶ ABS 5- Myanmar

146.0 East ▶ C-Band: ABS 5 - India, China

150.0 East ▶ JCSAT 1B - Asia

152.0 East ▶ OPTUS D2 - Australia, Newzealand

154.0 East ▶ JCSAT 2A - Japan

154.0 East ▶ C-Band: JCSAT 2A - Asia&Oceania&Hawaii

156.0 East ▶ OPTUS C1,D3 - Australia, Newzealand

160.0 East ▶ OPTUS D1 - Australia, Newzealand

162.0 East ▶ SUPERBIIRD B2 - Japan

166.0 East ▶ INTELSAT 8 - Australia, Newzealand, North East Asia

166.0 East ▶ C-Band: INTELSAT 8 - Pacific

169.0 East ▶ C-Band: INTELSAT 2,5 - Pacific

172.0 East ▶ GE 23 - South Pacific, South East Pacific

172.0 East ▶ C-Band: GE 23 - Pacific

180.0 East ▶ INTELSAT 701 - Australia, Pacific

180.0 East ▶ C-Band: INTELSAT 701 - Pacific

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Edited by
Alexander Wiese

20 Years Ago

Travel into the Past
TELE-satellite Magazine Issue 11/1990



B 9318 E
ISSN 0931 4733
10. Jahrgang Nr. 59

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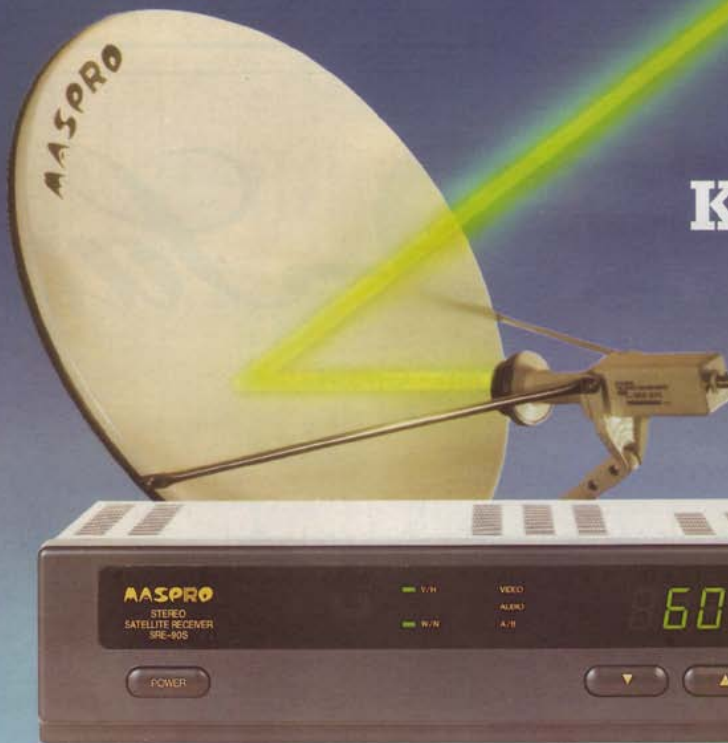
High - End - Receiver im Vergleich
KATHREIN: Service großgeschrieben
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NETWORK SS6000

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Die On-Screen-Graphics des Network SS6000 Stereo Satelliten-Receivers ermöglichen eine unvergleichlich einfache Bedienung des Gerätes. Die Bildschirmeinblendungen, die man normalerweise nur bei teureren Systemen findet, informieren den Benutzer auf einen Blick über den Status jedes einzelnen der 32 Kanäle.

Die Frequenz, Polarität, Audiofrequenz, Kontrast und Decoder-Informationen können geprüft und direkt mit der Fernbedienung geändert werden. Das bedeutet z.B., daß die mehrsprachigen Programme schnell gefunden, eingestellt und abgespeichert werden können.

Die On-Screen-Graphics ist nur ein Teil des Gesamtbildes. Die gute Empfindlichkeit des Receivers stellt einen ausgezeichneten Empfang sicher. Zwei SCART-Buchsen, eine zum direkten Anschluß des Fernsehgerätes, die andere für den Decoder, sind eingebaut.

Ein weiteres Plus des Network SS6000 Stereo Receivers ist seine Ausrüstung mit dem Wegener Panda 1 Rausch-Reduktions-System, das genau auf die vom ASTRA Satelliten ausgestrahlten Stereosendungen ausgelegt ist. Das bedeutet, daß der Receiver 100% kompatibel mit ASTRA ist - was mit anderen "Stereo-Systemen" nicht immer der Fall ist.

Außerdem: Der SS6000 ist in Großbritannien für Network entwickelt und wird dort produziert. Das erlaubt den zollfreien Export innerhalb der EG.

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Edited by
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SAMSUNG DSR 9000 FTA

In the search for a digital FTA receiver that is loaded with features but is easy to use, the TELE-satellite International test group stumbled onto the SAMSUNG DSR9000 FTA. One of the requirements of this search was the automatic downloading of software updates via satellite. Receiver software is constantly being improved or updated and not every digital receiver owner has the ability to use a PC to upgrade the receiver's software via the serial interface. Samsung's receivers are distributed worldwide and thus software upgrades are made available through various satellites around the world.

In central Europe, the ASTRA satellite at 19.2° East can be used for this service.

The silver colored chassis and the overall design of this receiver gives the impression that this is an expensive box. The four-digit display shows one of the 2000 possible channels and it can easily be seen even in bright sunlight. A round ring-button lets you change channels and adjust the volume without having to use the remote control. The backside of the box is also nicely laid out. The IF signal is looped-through allowing an additional receiver (analog) to be connected. Two Scart connectors let you connect the box to a TV and a VCR. Audio and video outputs are also available via three RCA jacks. These could be used to connect additional equipment such as a TV projector. The serial interface can be used to upload new software into the receiver if for some reason it were not possible to do this via satellite.

Terrestrial antenna signals are also looped-through and the onboard modulator (PAL B/G, I, K in our test model) operates in the entire UHF range. The remote control sits comfortably in your hand with all functions clearly marked thus reducing the likelihood of pressing the wrong button. The first thing the receiver will do after it has been properly set up and configured for the existing antenna will be to look for new software. If a new update is available, it will just take a few minutes to complete the download.

The actual installation of the receiver is extremely simple. It must be pointed out that - aside from the easy-to-understand menus - this receiver also has excellent graphics in its On-Screen display. As a worldwide receiver, the DSR9000 FTA offers six different languages for its menus, EPG and soundtrack. If you happen to be using a Solarsat antenna (test report in TELE-satellite International 10-11/2000), you will find a special calculation program in the menu.

After the antenna and LNB parameters are stored, the active satellites can simply be selected. The integrated DiSeqC 1.2 allows the use of more than one LNB or can be used to drive an appropriate motor. The automatic search function scans all of the

10 Years Ago

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desired satellites (up to 16) in one shot. Only about seven minutes was needed for the Scan function to handle 80 transponders. If necessary the PID's for video, audio and PCR can be manually entered. It's even possible to connect the receiver to a SMATV system. Once programmed, specific channels can be stored in three different priority lists. Considering that this is a digital receiver, switching between channels is actually quite fast, on average about 1/2 second. Unfortunately, this still does not make for very good "Zapping", but even if you were to try, you wouldn't have to worry about any unexpected system hang-ups. In our tests, critical C-Band signals (1.9 Ms/sec) were easily handled without any loss of signal even though, according to the manufacturer, the box can handle 2-45 Ms/sec. The Electronic Program Guide (EPG) is very nicely laid out. Here you can display current and future programming information. When switching between channels, a small transparent program information bar appears near the bottom of the screen providing channel name and current program data. A simple push of a button selects the proper soundtrack. The DSR9000 FTA is also Teletext compatible. Switching over to radio mode can

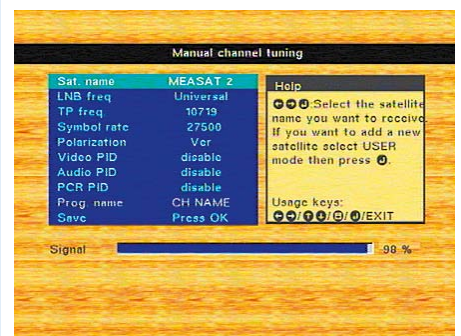
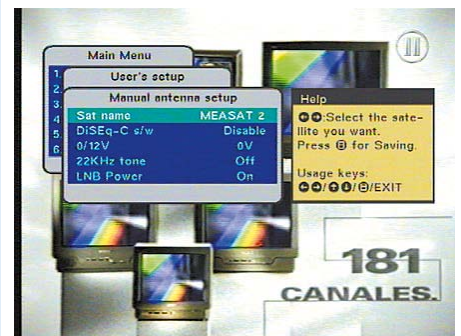
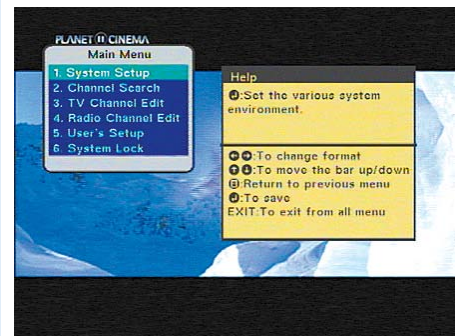
easily be done with the remote control. Program information will then appear on the screen and will also include an attractive background. The EPG can also be accessed in this mode. Unfortunately, the DSR9000 FTA does not have a digital audio output. While we were conducting our tests, new software version 105 became available and was uploaded into the box via satellite. Several bugs that were in version 100 were fixed and there were also obvious improvements with Skyplex signal reception. With the DSR9000 FTA, Samsung has developed a truly user-friendly and easy-to-use receiver that is an excellent choice for anyone not interested in receiving Pay TV signals. Clean graphics and menus that are self-explanatory leave behind a lasting favorable impression. Once the box was upgraded to version 105, there were no more lock-ups. Switching channels was better than average and the automatic scan function works quite fast. The receiver comes with a comprehensive user manual. If it were up to us, we would have liked to see a digital audio output and perhaps even a third Scart connector. The good local service provided by the regional importer is also a "plus" worth mentioning.



MediaCom FTA-Gold

In our unceasing hunt for an easy-to-use free-to-air (FTA) receiver with sufficient channel memory, C- and Ku-band compatibility, single and multi channel per carrier (SCPC/MCPC) capability and the ability to control a mechanical C/Ku polarizer, we came across the MediaCom FTA Gold. Free-to-air means that we need not waste any time looking for some CI module slots to allow the reception of PAY-TV. The dark and stylish front panel includes a light green display showing the selected channel number. The FTA Gold has more than sufficient storage capacity with a 3000 channel memory for TV and an additional 2000 channel memory for digital satellite radio. Six unpretentious keys allow operating the receiver without the remote. On the back panel the first feature that catches the attention are the quick-clamps for connecting a mechanical polarizer. This is very important for combined C and Ku-band reception. The receiver also allows for the standard configuration with 13/17 Volt switching of the polarization angles. The IF from the antenna can be looped through and thus made available to an additional receiver. Unfortunately the "two-scart" solution seems to have won over most manufacturers of digital satellite receivers, including MediaCom for the FTA Gold. Analog stereo is output from two RCA connections and an additional connection delivers the video signal. A programmable 0/12 Volt output is available for external switches. The serial interface is designed to permit upgrading the operating software, but it could just as well be used to copy the SatcoDX channel information into the box. Unfortunately the receiver we tested was not yet SatcoDX compatible. A terrestrial TV signal is looped through and an UHF modulator can be tuned over the complete UHF range. All PAL modes and NTSC are supported. The remote control deserves special praise. The buttons are clearly labelled and the layout is very logical. With a touch of a button the screen image can be frozen which is a useful feature. First of all the language of the on-screen display (OSD) menu can be selected from five available languages, including Arabic. The OSD can be changed into transparent mode in five steps and the time-outs for the graphics can be individually set. The brightness of the video is also adjustable in five steps. The FTA Gold is pre-set for almost all satellites around the world. All that is left to do is set up the local oscillator frequencies (LOF) for one or several LNBS. Ten sets of values are already stored in the software but of course the parameters can also be freely selected. The various LNBS and the corresponding dish motor are controlled with DiSEqC 1.2. The search function can be performed either in 'normal' mode (to find all signals) or in 'FTA' mode, where only clear or unencrypted signals will be found. After the initial scan, any time later you can use the 'update' function to scan all transponders for new signals without overwriting pre-existing

and unchanged channels. The receiver takes eight minutes to search an 80-transponder satellite. The graphic design of the search menu is particularly good. Individual transponders can be searched for channels using the manual search mode. It is also possible to key in the PID parameters manually. After a complete scan there are usually some channels to be deleted, moved or added to the favourite list. It is also possible to 'lock' certain channels. The editing menu displays the channel being edited in a small window on the screen and lists all technical specifications at the same time. All these features are very easy to use. In addition, there is an on-screen keyboard which can be used to name and rename the channels. Of course the same facility is available for all radio stations that have been found in the search. Once the receiver is set up and programmed, switching between channels takes 1.2 seconds, which is not very fast. It has to be mentioned in that context, however, that some delays are caused by the broadcaster having changed the packet information data (PID). This means that the receiver has to detect the correct parameters first from the data stream. When changing channels the most significant data about the channel (if provided) and the time are on shown screen for a few seconds. The FEC, polarization and PID data are also shown. Certain channels can be added to the favourites list and can then be accessed quickly by pressing a corresponding button on the remote. There is a sleep mode, which can set to shut down the receiver after a period of time for all those day or night couch potatoes. The MediaCom FTA Gold deserves our Global Approval without any qualifications. Features like mechanical polarizer control, SCPC compatibility, global satellite memory and C/Ku-band reception make it a really universal box. At the same time it is easy to use and has a very well designed on-screen menu plus online help. It is an ideal FTA receiver for the whole family because everybody will be able to use it. The handbook explains all steps of the installation and operation in an easy-to-understand way. During the extended testing there were no system crashes. Unfortunately this is still not always the case when talking about digital receivers.



AMT Sat Cruiser DSR-301CI

The situation with channel scanning in the satellite TV world is not entirely unknown: you have the frequency, but all the other data is missing. The FEC and Symbolrate values are not always available in the charts, especially when it involves a brand new feed-signal. Even the best satellite receiver doesn't provide much help here. The only solution would seem to be a receiver's Band-Scan function. Unfortunately, this isn't all that much fun, since this type of scan could take the entire night and by then that feed has already disappeared. But with the new Sat Cruiser DSR-301CI from AMT, search technology has taken a giant step forward. In a special menu, all you need to do is enter the frequency of the signal - nothing else is needed.

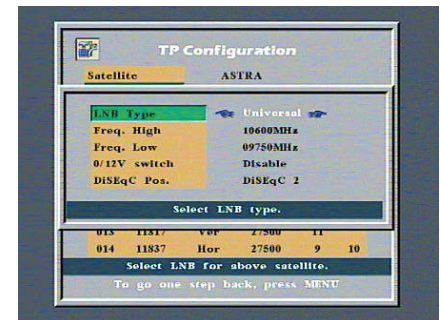
The modulator operates in all the different PAL formats across the entire UHF range. In NTSC mode, the modulator switches over to channel 3 or 4. The serial interface allows new software and updated program data (SatcoDX compatibility coming soon) to be uploaded. When the box is first placed into service, you will be prompted to select a language to be used for the On-Screen display (OSD) and the audio sub-carrier. From English to German, Farsi, Arabic and even Russian, most of the important languages are available. An extra special feature is the integrated PAL/NTSC converter. Depending on the TV being used, PAL, NTSC or AUTO can be selected. The colors of the OSD can be set for two individual users. The European version of this receiver is pre-programmed with 13 satellites with room for 10 more.

up to block specific programs from a particular age group. In our test, a 12 year old managed to find his way to an inappropriate channel in just four minutes. The Sat Cruiser DSR-301CI from ATM is a solid, easy-to-use family receiver able to receive free (FTA) and Pay TV (all known CI systems) signals. But this box even has something to offer to more knowledgeable users with its manual PID entry and its symbolrate automation. It is a little weak at the knees with its 1000 channels; a little more would have been better. The user-manual serves as an excellent guide during the installation and using it on a daily basis is nothing more than child's play. Thanks to the regional pre-programming, the NTSC/PAL selection, the language choices and the universal power supply, the DSR-301CI is truly useable worldwide.



After only a few minutes all possible symbolrates have been scanned and even the FEC values are under control. The result is a new, unlisted channel. This is an important feature that deserved to be highlighted right from the start. This receiver is designed to be used as an FTA/CI unit. With the right CI module and appropriate card, this box can be used for Pay TV reception. Otherwise, it will work just fine as an FTA receiver. One drawback: only a meager 1000 channels are available. Since this box is DiSEqC compatible, multiple LNB's or antennas can be connected. It won't be long before you run out of memory space. The nicely shaped, silver-colored cabinet has two flaps on the front panel that hide the CI slots and the auxiliary control buttons. These buttons can be used to program the box if the remote control decides it doesn't want to play anymore. The green four-digit display shows the current channel. The backside of the unit is fitted with all the usual standard equipment. The IF is looped-through and two Scart connectors together with three RCA jacks link the receiver to external audio/video equipment. A fourth RCA jack provides the controlled 0/12 volt output.

The LNB's are matched with the proper local oscillator frequencies (LOF's). The receiver's menu has the universal and standard values already pre-programmed into the box. Other LOF values can be manually entered. The subsequent scan of an 80-transponder system lasted only seven minutes. The scan can be set up to search for "FTA-only" or "All" channels. Individual transponders can likewise be activated. If it becomes necessary to enter in PID data manually, a corresponding menu is available. At this point the enormously helpful automatic symbolrate search function is certainly worth mentioning again. The Sat Cruiser accepts symbolrates anywhere between 2 and 45 Ms/sec and was even able to work with a 1.8 Ms/sec signal (SCPC) with no difficulty. The DSR-301CI is packed with a very powerful editing function. Programs can be quickly and easily moved, deleted or even temporarily blocked. Priority channels can be quickly stored in a special list. An integrated "typewriter" lets you add names to stored channels and satellites. With a 0.7 second channel switching time, this receiver is one of the faster ones. Holding down the channel selection button does not seem to bother the Sat Cruiser as it does not seek revenge by locking-up on you. To prevent the DSR-301CI from being improperly used by the younger generation, the box can be set



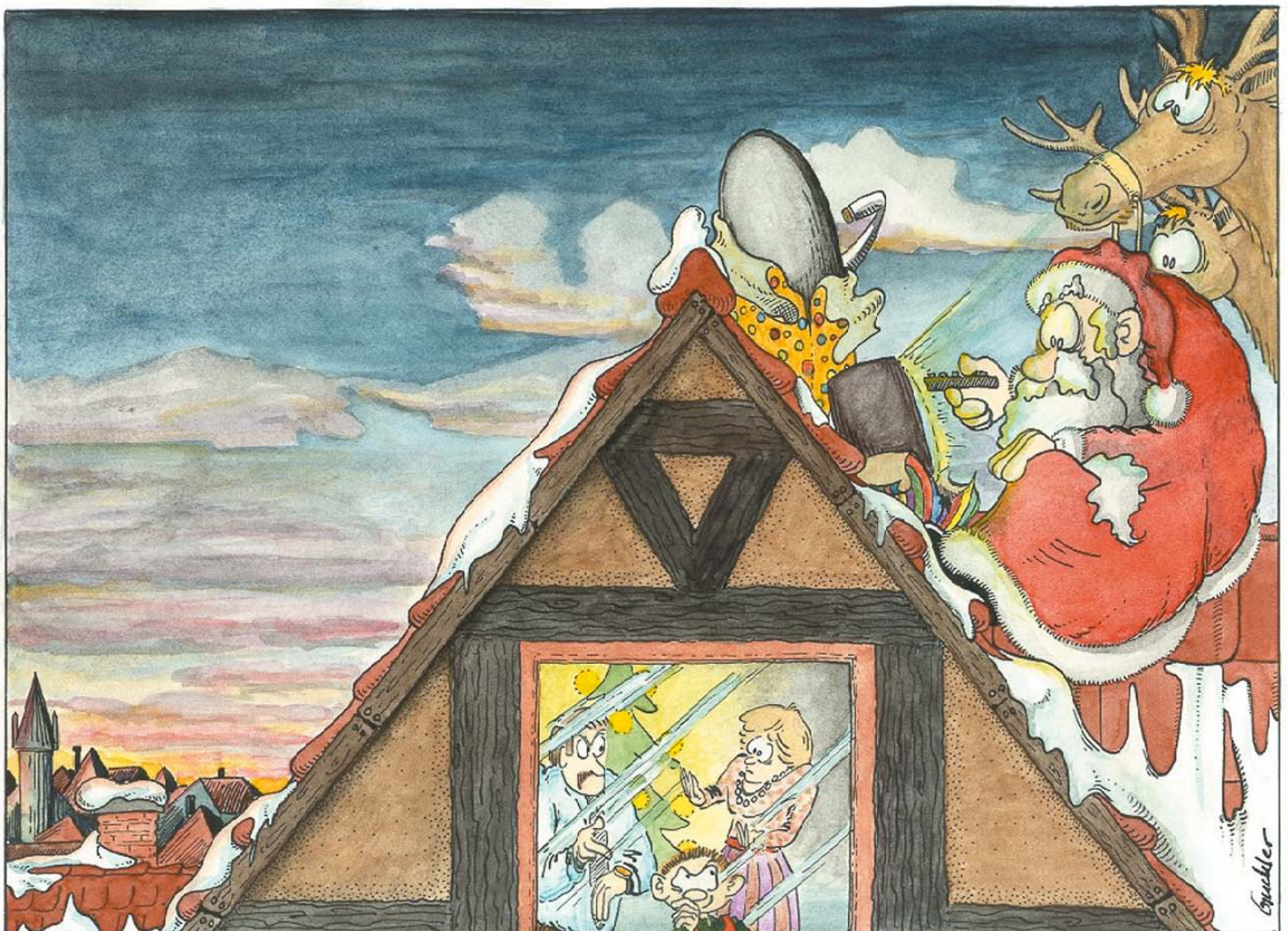
ATTISAT Satellite Systems

In 1997 satellite communication specialists and investors met in Athens. One side brought with them a concept and the other brought the necessary solutions to make the project a reality. The goal was the design, the production and the distribution of a flat antenna. At first this doesn't sound like anything special since similar antennas already exist on the market. What appeals to the investors is the plan to create a product independent of subcontractors. Likewise with manufacturing technology, they also wanted to go their own way. Almost every production machine and test station should be their own design. This is a further step towards independence. With the product came the thought that the antenna should not be re-invented, instead it should stand out from the rest of the field through first class quality and design flexibility induced by customer suggestions. The flat antennas that are currently available have problems with both their life-expectancy - they are not always weather-proof - and with uniform gain across the entire Ku-Band. Specialists and Investors joined forces and the result was the formation of the internationally renowned company ATTISAT Satellite Systems. They are strategically located between the city center and the airport in Athens where the Flat antenna is produced. Over three years have passed since this company was formed. Their antenna has gained recognition in the market and the plan is to ramp up production to about 200,000 per year. The investors, who have thus far contributed nearly 1,000,000 Euros to this effort, have not regretted their decision. In a modern building, the FL 500 is manually assembled using a cleverly designed system. Through the use of special markings on each piece, mistakes



have been virtually eliminated. At the end of the production line, every antenna must undergo a thorough test. Various satellites from around the world can be simulated with signal generators. If an antenna does not perform as expected, it is removed, dismantled and analysed to determine "why" so that the same fault does not occur again in the future. Team spirit among the employees is a major reason why they can ship a quality product. None of them have an 8 to 5 job, instead, the hours they work

are based on the daily requirements. Delivery problems have been for the most part eliminated. ATTISAT is also involved in the development of V-Sat systems, the manufacture of microwave devices and the development and production of RX/TX outdoor systems for Internet/Multimedia via satellite. They also have their own R&D (Research and Development) department whose function is to handle development contracts from customers in the Satcom industry.



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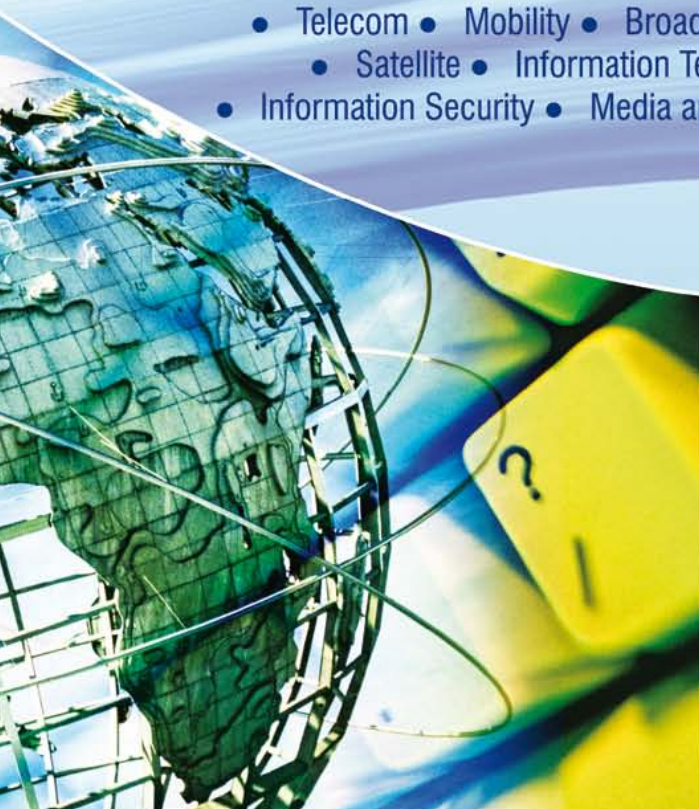
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1103	02-03/2011	3 December 2010	14 January 2011	28 January 2011
<i>TELE-satellite Magazine will be present at these exhibitions:</i>				
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ANGA Cable 2011				
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1107	06-07/2011	1 April 2011	20 May 2011	3 June 2011
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