The first stand-alone audio adapter for DVB networks

XTS

Innovative, reliable and cost effective unit providing a reliable broadcast service to millions of listeners

The *XTS* is any DVB-network provider's dream come true. An easy, practical and economical solution to insert audio signals from remote sources, into a DVB Multiplexer without decoding and re-encoding the signal.

In short, the stand-alone unit *XTS*, accepts, converts and feeds the audio signal to a DVB Multiplexer for distribution over satellite-, CATV-, or terrestrial networks. The X stands for synchronous interfaces and the TS for transport stream.

High quality MPEG-2 audio signals contributed over PTT leased lines, a satellite link, ISDN or simply locally from the in-house codec are accepted on a standard synchronous X.21 interface. This MPEG audio signal is then converted by the *XTS* into a DVB compliant transport stream with an ASI interface. This stream is fed directly into TS multiplexers or CATV Headends allowing audio broadcasters to access satellite platforms, CATV distribution networks and terrestrial digital broadcast networks with minimum effort and at low cost. Moreover there is no loss of quality as cascading is avoided.

The *XTS* unit contains all the facilities to maximise the up-time. A built-in switch automatically switches over to a back-up contribution line, ensuring the continuity of the programme for the listeners. A redundant power supply guarantees uninterrupted operation in case of power failure.

The 1RU 19" rack unit, available in a single or dual programme version, can easily be mounted into a 19" cabinet either at the satellite up-link station, the CATV Headend or play-out centre of a digital broadcast network.

In the chain of digital equipment from contribution to distribution within the DVB platform the *XTS* improves the sound quality, simplifies the network, and eliminates excessive equipment thus saving space and costs. An absolute must for satellite service providers and cable television network operators in their quest to offer optimal service to their customers: the programme providers.

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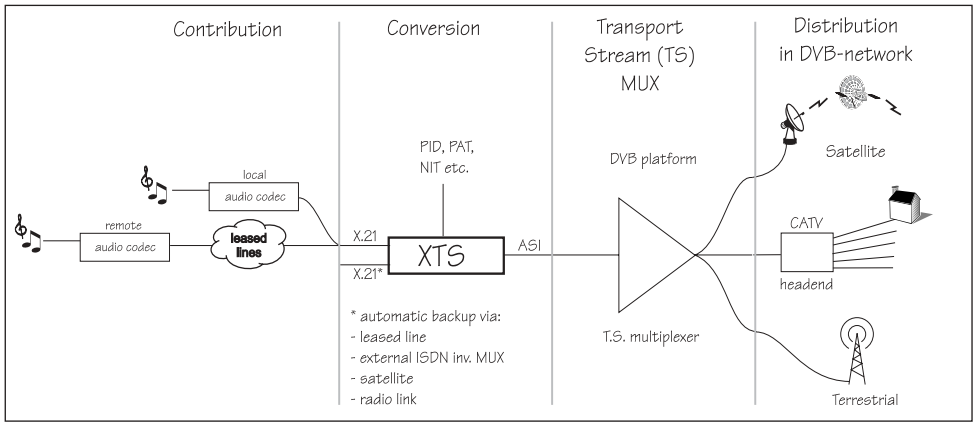
Applications

- to feed audio from remote locations into a satellite DVB-S platform
- to feed audio into a terrestrial DVB-T platform from its initial implementation
- to feed audio signals to CATV headends
- to back-up existing audio channels over satellite
- to extend existing audio programme distribution channels into DVB networks
- to easily move existing audio channels to another (physical) location
- to bring a number of DVB audio channels via an IP(Internet) platform over satellite (use gaps in excess bandwidth)



Special Features

- The X.21 inputs accept MPEG audio from local codecs and standard contribution links (e.g. leased lines, microwave links or satellite links).
- The auto-sensing function will automatically select either the MAIN or the BACK-UP input to receive the MPEG stream.
- After initial programming, the XTS is self sufficient.
- One or two converters in a 19“ cabinet of 1RU height only; even with redundant power supply.
- A special pre-multiplexer combines over 100 XTS processed audio programmes into one DVB TS, thus better use is made of existing TS feeds and multiplexers.

Technical Data

Models:	XTS Single	1 converter, 1 or 2 power supplies (redundant)
	XTS Dual	2 converters, 2 power supplies (redundant)

Input	Serial synchronous data acc. to ITU X.21
Main connector	15 pin Sub-D
Back-up connector	15 pin Sub-D
Back-up criteria	Automatic (Loss of Signal) or external switch input
Bitrate	64 kbit/s ... 384 kbit/s (higher rates upon request)
Output	DVB-ASI Transport Stream acc. to EN 50083, pt 9
Connectors	2 BNC (buffered) Optional: audio headphones output for monitoring
Signal Format	DVB-Transport Stream, packet mode block length 188 bytes

Display	LEDs on front panel • input activity • main or back-up input • CPU activity • supply voltages, primary and secondary • optional: LCD display
Alarms	3 contact closures (electronic)
Connector, Type	9 pin Sub-D
Function	freely assignable

Programming and Control

Control	Asynchronous serial interface acc. to RS/EIA 232
Format	selectable
Baud rate	9600 bps
Parameter	PID, PAT NIT, SDT, EIT, TDT on request; switching delay MAIN - BACK-UP

Physical

Enclosure	19“ subrack 1 RU
Dimensions	484 x 45 x 260 mm
Weight	approx. 3 kg for XTS Single version approx. 4 kg for XTS Dual version
Power	85 to 240 VAC approx. 10 VA (XTS Single version), approx. 15 VA (XTS Dual version)
Conformity	CE marked
EMC	EN 55013
Electrical safety	EN 60065
Options	modular design for 19“ subrack 3 RU higher MPEG rates

A joint development of
You/Com Audiocommunicatie B.V. (The Netherlands) and
Headroom Broadcast GmbH (Germany).

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