Q567 DAB+ DVB TRANSCODER

PRODUCT INFORMATION

The Q567 DAB+ DVB Transcoder is the solution for converting DAB signals to digital audio streams.

It enables the conversion of up to 8 DAB+ channels into a DVB compliant MPEG-2 transport stream.
The signals are output via IP (ethernet) or DVB-ASI.

This provides the perfect solution to integrate your DAB(+) stations into your digital cable network.
Many of our customers use the device to monitor the operation of remote or external operated DAB broadcasting stations via IP.

Qbit's long time experience in transporting and processing audio signals allows us to facilitate our proven and reliable platform for this product.

Our goal at Qbit is to maintain highest standards in build- and signal quality.
Low power consumption, the compact design in the industry standard dimensions (19", 1 U) without any fans allow easy integration of the device into your infrastructure.
There are several ordering options available to help you customize the product for your needs.

MANAGEMENT AND CONTROL

The Q567 DAB+ DVB Transcoder can be managed conveniently via the integrated web interface with all common web browsers.
The device can be monitored and managed via SNMP.
The basic setup and status monitoring can be performed with the control panel and the LC display at the front of the device.

DIGITAL SIGNAL FEEDING OF DAB RADIO STATIONS TO THE HEADEND.

MONITORING OF DAB TRANSMITTING STATIONS.

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FEATURES

- transcoding of 4 / 8 DAB+ stations into DVB compliant transport streams
- several compression algorithms
  - MPEG 1 Layer II
  - AAC
- compression algorithm can be set individually per DAB channel
- all bit rates are supported according to the respective standards
- 32kHz, 48kHz sampling rate
- transmission of Ancillary Data (via IP or serial)
  Program Associated Data (PAD: DL, DL+) are extracted from the DAB(+) signal and converted to UECP. UECP data can then be embedded in MPEG audio data or transported as private streams inside the MPEG-2 transport stream.

APPLICATIONS

- Feeding DAB+ stations to digital cable networks
- Monitoring of remote DAB+ stations via IP

DIGITAL SIGNAL FEEDING OF LOCAL DAB+ RADIO STATIONS TO THE HEADEND.

MONITORING OF DAB+ TRANSMITTING STATIONS.

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SPECIFICATIONS

DAB+ Receiver:
- ● 4/8 DAB+ channels (one F socket per channel)

Compression Algorithms:
- ● MPEG-1/2 Layer II (ISO/IEC 1172-3, 13818-3)
- ○ MPEG-2 AAC (ISO/IEC 13818-7)
- ○ MPEG-4 AAC LC, AAC LD, HE-AAC, HE-AAC V2 (ISO/IEC 14496-3)

Bit Rate:
- ● all bit rates are supported according to the standards of the respective algorithms

Sampling Rate:
- ● 32kHz, 48 kHz

Ancillary Data:
- ● transport of Ancillary Data via UECP within the MPEG-2 transport stream
  Program Associated Data (PAD: DL, DL+) are extracted from the DAB(+) signal and converted to UECP. UECP data can then be embedded in MPEG audio data or transported as private streams inside the MPEG-2 transport stream.

Transport Protocols:
- ● via IP:
  Output of DVB MPEG-2 transport streams including service information according to ETSI EN 300 468, compliant to „Pro-MPEG Code of Practice #3 release 2“ (FEC optional, see below)
- ● Transport via RTP (over UDP), pure UDP is possible
- ○ FEC (Pro-MPEG compliant)

- ○ via ASI:
  Output of DVB MPEG-2 transport streams including service information according to ETSI EN 300 468

Key: ● Default ○ Options

Network Interfaces:
- ● 2 separate Ethernet interfaces (IEEE 802.3, RJ45, 10/100MBit/s)
  - data (Elementary or Transport Streams)
  - control (Browser Web Interface, SNMP and Ancillary Data)
- ○ DVB-ASI output (EN 50083-9)
- ○ additional DATA port (for redundant streaming)

System Configuration, Control and Monitoring:
- ● via Ethernet with web browser
- ● via Ethernet with SNMP
- ● via front panel keys

Power Supply:
- ● integrated switching power supply, input voltage: 100 to 240 V +-10%, 50 to 60 Hz
- ○ -48V DC power supply
- ● power consumption: 30W

- ○ redundant power supply
  The optionally available redundant power supply protects the operation of the device and comes with the following functions:
  - measurement of the power supply voltages, values are provided via web GUI or SNMP
  - SNMP trap generation on power supply fail
  - activation of switching contacts on power supply fail
  - automatic switch-over in case of power supply fail

Housing:
- ● dimensions: 19“ rack mount cabinet, 1 U (483mm x 360mm x 44mm)
- ● weight: 4,5 kg

Environment:
- ● operation temperature: 0°C to 45°C
- ● storage temperature: -20°C to 70°C
- ● humidity: 20% to 90%, non-condensing

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ORDERING OPTIONS

Q567 DAB+ DVB TRANSCODER

Q567 DAB 4	Transcoder with 4 DAB input channels
Q567 DAB 8	Transcoder with 8 DAB input channels

SIMILAR PRODUCTS

Q561 IP Audio Encoder
Q565 FM DVB Transcoder

SUPPORT OPTIONS

We are convinced of the high quality of our products. Hence, we are granting 2 years warranty without making compromises.

- 2 years hardware warranty
- hardware warranty extension up to 10 years

For the time after that, we offer affordable subsequent contracts. For optimal support and for software updates and upgrades we offer budget-friendly support contracts.

- Service Contract Basic (Updates, Email support)
- Service Contract Advanced (Updates, Email- and phone support, replacement devices etc.)

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