Qbit

PRODUCT INFORMATION

The Qbit Q561-DVB IP Audio Encoder sets standards for high quality audio encoding.
Based on the proven Qbit platform, it provides highest signal quality, best build quality and service without compromise.
Customers around the world trust our market leading DVB IP Audio Encoder.

Up to 8 digital stereo audio channels (or 4 analog channels) can be encoded simultaneously. They can then be put out as MPEG2 compliant DVB transport streams via IP or ASI interface.
Each channel can be configured individually (e. g. compression algorithm, bit rate, stereo mode, etc.).

If more than 8 stereo channels are required, it is possible to cascade up to 4 Q561-DVB in order to create a transport stream with up to 32 audio channels.

The transmission of ancillary data and switching contact information (GPIO) is possible with the default interfaces.

MANAGEMENT AND CONTROL

The Q561-DVB IP Audio Enccoder 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.

THE MODULAR, FLEXIBLE AND RELIABLE SOLUTION FOR HIGH QUALITY AUDIO ENCODING FOR YOUR DVB APPLICATIONS

Q561-DVB IP AUDIO ENCODER

FEATURES

- 1-8 stereo channels (up to 4 analog or 8 digital)
- encoding of analog or digital audio signals into a DVB compliant MPEG2 transport stream (unicast or multicast)
- cascading of up to 4 devices (max. 32 channels per transport stream)
- several compression algorithms
  - MPEG 1 Layer II
  - AAC

- configuration of compression algorithm per audio channel
- wide support of operating modes (stereo, joint stereo, dual mono, etc.)
- all bit rates are supported according to the respective standards
- 32kHz, 48kHz sampling rate
- 24 Bit A/D converter
- transmission of ancillary data (over IP or serial interface)
- output of DVB compliant MPEG2 transport streams over IP or ASI
- cascading of multiple encoders for > 8 channels per TS
- modular design
- many configurations can be ordered

APPLICATIONS

- DVB compliant encoding of audio signals
- satellite feeds
- feeding digital cable networks

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APPLICATIONS

Qbit

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SPECIFICATIONS

Audio Inputs:
- ● XLR connectors (female) for analog and digital audio signals
  - • digital: (max. 8 stereo) AES/EBU, electrical, XLR (IEC958)
  - • analog: (max. 4 stereo) XLR, electronically balanced, 0 to +18 dBu (adjustable in 0.5 dB steps), Audio Frequency Range (analogue) 20 Hz to 20 kHz (± 0.3 dB)

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

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

Sampling Rate:
- ● 32kHz, 48 kHz

Ancillary Data:
- ● RS.232 interface
- ● transport of Ancillary Data via UECP within the MPEG-2 transport stream (breakout cable (4 or 8 connectors, conversion from Sub D 25 to Sub D 9)

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 / transport streams via IP)
  - control (web interface, SNMP and Ancillary Data)
- ○ DVB-ASI output (EN 50083-9)

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 tos 60 Hz
- ○ -48V DC power supply
- ● power consumption: 20W

- ○ 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

ORDERING OPTIONS

Q561-DVB IP AUDIO ENCODER

Q561-DVB AD 1 Q561-DVB AD 2 Q561-DVB AD 3 Q561-DVB AD 4	DVB-IP Audio Encoder with analog / digital stereo inputs (combo port) can be ordered in versions from 1 to 4 stereo channels
Q561-DVB D 1, Q561-DVB D 2 Q561-DVB D 3, Q561-DVB D 4 Q561-DVB D 5, Q561-DVB D 6 Q561-DVB D 7, Q561-DVB D 8	DVB-IP Audio Encoder with digital-only stereo inputs can be ordered in versions from 1 to 8 stereo channels

SIMILAR PRODUCTS

Q561 IP Audio Encoder	Q565 FM DVB Transcoder
Q562 IP Audio Decoder	Q567 DAB+ 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.)