PRODUCT INFORMATION

Qbit's Q562 IP Audio Decoder enables you to decode up to 8 digital stereo channels (or 4 analog ones) and play them out via AES/EBU (XLR jacks).

It is possible to decode elementary streams as well as DVB compliant transport streams.

Input signals coming via IP or ASI can be handled and decoded.

MANAGEMENT AND CONTROL

The Q562 IP Audio Decoder 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.

IP AUDIO DECODER FOR UP TO 8 STEREO CHANNELS

Q562 IP AUDIO DECODER

FEATURES

- 1-8 stereo channels (up to 4 analog or 8 digital)

- several compression algorithms
  - Linear PCM
  - MPEG 1 Layer II
  - AAC
  - Enhanced aptX
  - OPUS

- 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 D/A converter
- comprehensive redundancy scenarios with automatic switching to backup channels
  - via second IP channel (1 or 2 DATA ports)
- transport of ancillary data (via IP or serial interface)

- modular concept
- various configurations can be ordered

APPLICATIONS

- Studio Transmitter Link
- Transport of audio signals via digital networks (via IP or ASI)

- point-to-point connections
- point-to-multipoint connections (up to 16 destinations)

IP AUDIO DECODER FOR UP TO 8 STEREO CHANNELS

SPECIFICATIONS

Audio Outputs:

● XLR connectors (male) for analog and digital audio signals
digital: (max. 8) AES/EBU, electrical, XLR (IEC958)
Analog: (max. 4) 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)
  • Output impedance: <=50 Ohm (XLR, Balanced)
  • Mode: Stereo, Joint Stereo, Mono, Dual Mono
  • THD+N (1 KHz at max. level): <0,01% at 1 KHz
  • Dynamic range: > 80 dB
  • Crosstalk attenuation at 1KHz: >100dB
  • S/N ratio (weighted): > 80dB

compressing algorithms:

● Linear PCM
● MPEG-1/2 Layer II (ISO/IEC 1172-3, 13818-3)
● OPUS
● MPEG-2 AAC (ISO/IEC 13818-7)
● MPEG-4 AAC LC, AAC LD, HE-AAC, HE-AAC V2 (ISO/IEC 14496-3)
○ Enhanced aptX

Bit Rate:

● all bit rates are supported according to the standards of the
respective algorithms

Sampling Rate:

● 32kHz, 48 kHz

Ancillary Data:

● RS-232 interface
● output of ancillary data via RS-232 or IP (UECP over IP)
○ breakout cable (4 or 8 connectors, conversion from Sub D 25 to
Sub D 9)

Transport Protokols:

Via IP:

● input of elementary streams via IP
● input 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"
● transport via RTP (over UDP), pure UDP is possible
● FEC (Pro-MPEG compliant)

via ASI:

● Input of DVB MPEG-2 transport streams including service
information according to ETSI EN 300 468

Network Interfaces:

● 2 separate Ethernet interfaces (IEEE 802.3, RJ45, 10/100MBit/s)

- data (elementary streams via IP)
- control (web interface, SNMP)

Additional Network Interfaces:

○ additional DATA port for redundant streaming
○ SFP-Interface (Single/Multi Mode fiber), substitute for default
Ethernet DATA Port

● GPIO (4 outputs (relay contacts), 8 Inputs (photo couplers)

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: 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

Key: ●   default   ○   options

ORDERING OPTIONS

Q562 IP AUDIO DECODER

Q562 AD 1, Q562 AD 2 Q562 AD 3, Q562 AD 4	IP Audio Decoder with analog / digital stereo outputs (combo port) can be ordered in versions from 1 to 4 stereo channels
Q562 D 1, Q562 D 2 Q562 D 3, Q562 D 4 Q562 D 5, Q562 D 6 Q562 D 7, Q562 D 8	IP Audio Decoder with digital-only stereo outputs can be ordered in versions from 1 to 8 stereo channels

SIMILAR PRODUCTS

Q561 IP Audio Encoder

Q565 FM DVB Transcoder

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.)