



PRODUCT INFORMATION

The Q560 IP Audio Codec is the flexible, modular and reliable Audio Codec from Qbit.

Based on the proven Qbit platform, our device provides highest signal quality, service without compromises and great build quality.

Up to 4 bi-directional digital stereo audio channels (or 2 analog) can be processed simultaneously.

Each channel can be configured individually (e.g. compression algorithm, bit rate, stereo mode, etc.)

The Q560 supports data transport via Ethernet and ISDN. The SIP protocol is supported as well.

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

You can adapt the devices hardware configuration to your needs by choosing from a large variety of ordering options.

MANAGEMENT AND CONTROL

The Q560 IP Audio Codec 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 CODEC FOR UP TO 4 BI-DIRECTIONAL STEREO CHANNELS

Q560 IP AUDIO CODEC

FEATURES

- up to 4 bidirectional stereo channels (up to 2 analog or 4 digital)
- several compression algorithms
 - Linear PCM
 - MPEG 1 Layer II
 - AAC
 - Enhanced aptX
 - OPUS
 - G.711
 - G.722
- SIP support
- 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-D/A converter (in analog model)
- transmission of ancillary data (over IP or serial)
- input and output of elementary streams over IP or ISDN
- modular design
- individual configurations can be ordered

APPLICATIONS

- connection of remote studios
- transport of audio signals over digital networks via IP or ISDN
- point-to-point connections
- point-to-multipoint connections (up to 16 destinations)

IP AUDIO CODEC FOR UP TO 4 BI-DIRECTIONAL STEREO CHANNELS

SPECIFICATIONS

Audio Inputs:

- XLR connectors (female) for analog and digital audio signals
digital: (max. 4) AES/EBU, electrical, XLR (IEC958)
analog: (max. 2) 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)

Audio Outputs:

- XLR (male) for analog and digital audio signals
digital: (max. 4) AES/EBU, electrical, XLR (IEC958)
analog: (max. 2) 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)

compressing algorithms:

- Linear PCM
- MPEG-1/2 Layer II (ISO/IEC 1172-3, 13818-3)
- OPUS
- G.711
- G.722
- MPEG-2 AAC (ISO/IEC 13818-7)
- MPEG-4 AAC LC, HE-AAC, HE-AAC V2, AAC LD (ISO/IEC 14496-3)
- Enhanced aptX

Bit Rates:

- all bit rates are supported according to the respective standards

Sampling Rate:

- 32kHz, 48 kHz

Ancillary Data:

- RS-232 interface
- transport of Ancillary Data via RS-232 or IP
- (breakout cable (4 or 8 connectors, conversion from Sub D 25 to Sub D 9))

Transport Protocols:

- output of elementary streams via IP
- transport via RTP (over UDP), pure UDP is possible

Network Interfaces:

- 2 separate Ethernet interfaces (IEEE 802.3, RJ45, 10/100MBit/s)
- data (elementary streams via IP)
- control (web interface, SNMP and Ancillary Data)

Additional Network Interfaces:

- RJ45 (as a 2nd DATA port)
- E1 (G.703, G.704)
- SFP-Interface (Single/Multi Mode fiber), substitute for the standard ethernet DATA port
- X.21 (synchronous serial interface)
- ISDN
- 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 $\pm 10\%$, 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

Q560 IP AUDIO CODEC

ORDERING OPTIONS

Q560 IP AUDIO CODEC

Q560 AD 1 Q560 AD 2	IP Audio Codec with analog / digital stereo inputs and outputs can be ordered in versions from 1 to 4 stereo channels
Q560 D 1 Q560 D 2 Q560 D 3 Q560 D 4	IP Audio Codec with digital-only stereo inputs and outputs can be ordered in versions from 1 to 4 stereo channels

SIMILAR PRODUCTS

[Q561 IP Audio Encoder](#)

[Q562 IP Audio Decoder](#)

SUPPORT OPTIONS

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

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.

- 2 years hardware warranty
- hardware warranty extension up to 10 years
- Service Contract Advanced (Updates, Email support)
- Service Contract Advanced (Updates, Email- and phone support, replacement devices etc.)

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