Q572 DVB-S2 AUDIO SATELLITE RECEIVER

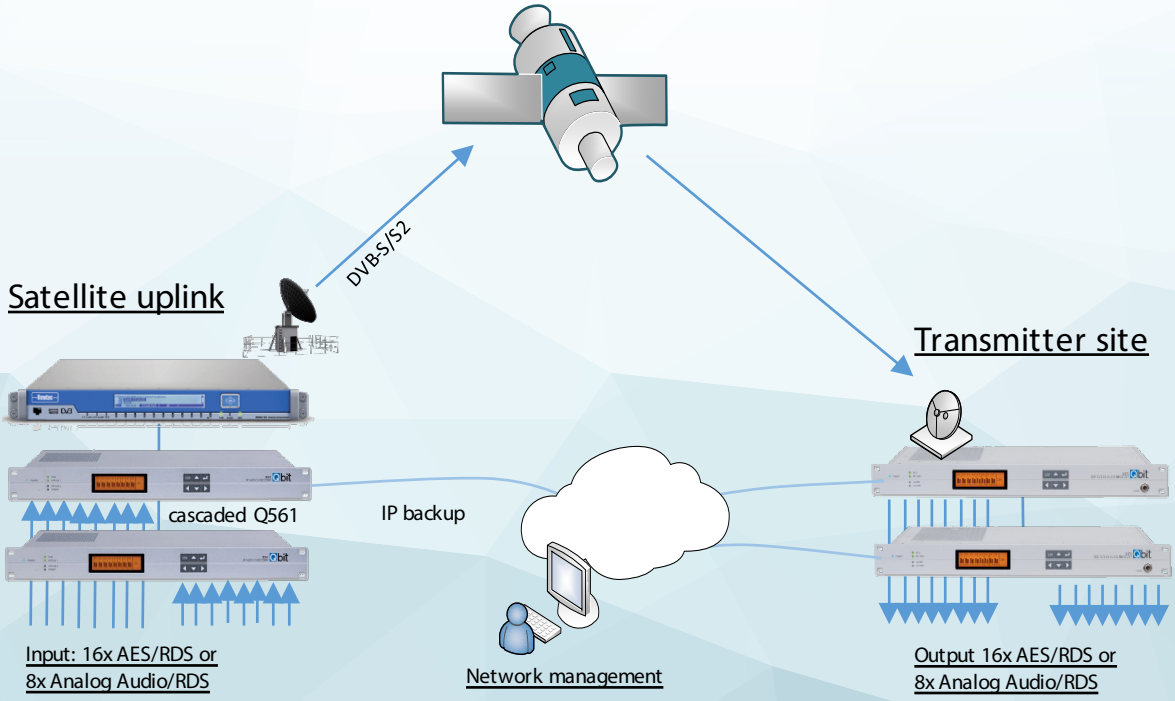
PRODUCT INFORMATION

Qbit's Q572 is a professional audio satellite receiver that was designed specifically for radio distribution applications.
Based around the latest DVB satellite modulation and MPEG audio compression standards, the Q572's highly integrated, low power, architecture is designed for maximum performance and reliability.

MPEG Audio Compression
The advanced audio decoder of our Q572 supports a wide range of industry standard MPEG audio codecs such as MPEG-1 Layer II and various AAC versions.
Combining DVB-S2 satellite demodulation with MPEG-4 AAC audio decoding helps the broadcaster to reduce annual satellite bandwidth costs and increase audio quality.

DVB-S/S2 Modulation
Qbit supports both DVB-S and DVB-S2 satellite demodulation. Both MCPC and SCPC delivery modes are supported, down to rates as low as 100 kSym/S up to 45 MSym/S.

High Density Design
The Q572 is available in two versions. 1 – 4 stereo channel decoding with Analog/Digital output or 1 – 8 stereo channel output with Digital output. Supporting multiple decoders in one chassis significantly reduces the cost for radio networks when delivering more than one channel to each transmitter site.



DVB-S2 RECEIVER WITH UP TO 8 CHANNELS

Q572 DVB-S2 AUDIO SATELLITE RECEIVER

FEATURES

- professional audio satellite receiver
- DVB-S/S2 input
- decodes up to 8 audio programs from a DVB transport stream (up to 4 analog or 8 digital AES)
- several compression algorithms
  - MPEG 1 Layer II
  - AAC
  - Enhanced aptX
- broadcast quality XLR connectors
- up to 8 RS.232 ports for RDS data (UECP)
- GPIO (4 outputs, 8 inputs)
- programmable alarm array
- 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
- Remote Control via Browser / SNMP

APPLICATIONS

- Studio Transmitter Link
- Monitoring

MANAGEMENT AND CONTROL

The Q572 DVB-S2 Audio Receiver 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.

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Q572 DVB-S2 AUDIO SATELLITE RECEIVER

SPECIFICATIONS

- DVB-S/S2 Tuner
  - Input frequency range: 950 to 2150 MHz (C and Ku-Band)
  - Input impedance: 75 Ohms
  - Input power range: -30 to -65 dBm per carrier
  - Image rejection: >30dB
  - IF Filter bandwidth: Automatic (depending on Symbol Rate)
  - Symbol rate: 0.35 to 45 MSymb/s
  - Demodulation: QPSK, 8PSK
  - Input connector: F socket
  - Loop-through connector: F socket
  - LNB supply voltage: 0, 13, 18V (400 mA)
  - LNB control: 22kHz/18V, DiSEqC 2.x, Toneburst
  - FEC DVB-S: 1/2, 2/3, 3/4, 5/6, 7/8
  - FEC DVB-S2: 1/2, 1/3, 2/3, 2/5, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10
- ○ Very Low Symbol Rate DVB-S/S2 Tuner
  - Symbol rate: 0.1 to 45 MSymb/s

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

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)
- ○ Enhanced aptX

Bit Rate:

- all bit rates are supported according to the standards of the respective algorithms (32 - 384 kbps)

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)

IP Input

- Transport Stream (DVB-compliant)
- Transport Stream over RTP (over UDP) or UDP

- FEC (Pro-MPEG compliant)

Network Interfaces:

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

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: -10°C to 45°C
- storage temperature: -20°C to 70°C
- humidity: up to 95% non-condensing at 40°C

Key: ● Default ○ Options

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ORDERING OPTIONS

Q572 DVB-S2 AUDIO RECEIVER

Q572 AD 1 Q572 AD 2 Q572 AD 3 Q572 AD 4	DVB-S2 Audio Receiver with analog / digital stereo outputs (combo port) can be ordered in versions from 1 to 4 stereo channels
Q572 D 1, Q572 D 2 Q572 D 3, Q572 D 4 Q572 D 5, Q572 D 6 Q572 D 7, Q572 D 8	DVB-S2 Audio Receiver with digital-only stereo outputs can be ordered in versions from 1 to 8 stereo channels

SIMILAR PRODUCTS

Q561 IP Audio Encoder	Q567 DAB+ DVB Transcoder
Q562 IP Audio Decoder	
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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