

8 Channel DVB-S2 Audio Receiver

Q572 is a DVB-S2 audio receiver for up to 8 stereo channels (digital AES/EBU) or 4 stereo channels (analogue and digital AES/EBU). Besides the audio signal up to 8 data channels are available via RS.232 or IP. The IP data output or an optional ASI output can provide received MPEG-2 Transport Stream.

Due to its DSP-based hardware, Q572 is compact (19" 1U housing) and highly energy-efficient (< 2W per stereo channel). Several ordering options are available to adapt the audio input/output configuration to the customer's requirements in a flexible way.

Specifications

DVB-S2 Receiver:

Input frequency range: 950 .. 2150 MHz
 Input impedance: 75 Ohm
 Symbol rate: 1 .. 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: 1/2, 3/5 (S2), 2/3, 3/4, 4/5 (S2), 5/6, 7/8, 8/9 (S2), 9/10 (S2)

Audio Decoding:

Algorithms:

ISO/IEC 11172-3, 13818-3 MPEG-1/-2 Layer II
 ISO/IEC 13818-7 MPEG-2 AAC
 ISO/IEC 14496-3 MPEG-4 AAC LC, HE-AAC, HE-AAC V2

Bitrate:

All allowed bitrates as defined in the respective standards

Sampling Rate:

32 kHz, 48 kHz

Audio Frequency Range (analogue):

20 Hz .. 20 kHz, \pm 0.3 dB

Audio Output:

Digital: AES/EBU, electrical, XLR (IEC958)
 Analogue: XLR, electronically balanced, level range 0 .. +18 dBu (adjustable in 0.5 dB steps)
 D/A converter: 24 bits

Energy efficient



Ancillary Data:

Private stream inside the MPEG-2 transport stream, or embedded in MPEG audio data

Format:

Transparent, UECP, other formats upon request

Interface:

RS.232 (1200 .. 38400 bits/sec) or via IP interface

Transport Protocols (Output):

Over IP:

Output of received DVB MPEG-2 transport streams compliant to Pro-MPEG Code of Practice #3 release 2

Over ASI:

Output of received DVB MPEG-2 transport streams

Network Interfaces:

- DVB-S2
- 2 separate Ethernet interfaces (IEEE 802.3, RJ45) for data (transport stream output) and control (HTTP, SNMP, ancillary data), optical interfaces (1000 Base-X, 100 Base-FX) available
- DVB-ASI (EN 50083-9) output (optional)

GPIO:

- 4 outputs (relay contacts)
- 8 inputs (photo couplers, 5 .. 24V)

System Configuration, Control and Monitoring:

- via Ethernet by accessing the on-system HTTP web server with any internet browser
- via Ethernet using SNMP
- via the front-panel keyboard and display

Power:

Supply voltage: 100 .. 240V +- 10%, 50 .. 60Hz
Optional: -48V DC
Integrated switching power supply
Power consumption: 5W

Power Supply Redundancy Option:

The optional power supply redundancy has the following features:

- Measurement of 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:

19" rack mount cabinet, 1U (1RU)
483 mm x 360 mm x 44 mm
Weight: 3,5 kg

Environment:

Working temp. 0 °C to 45 °C
Storage temp. -20 °C to 70 °C
Humidity 20% to 90% none condensing

Ordering Options for Audio Outputs:

- up to 8 stereo channels (decoder, digital AES/EBU)
- up to 4 stereo channels (decoder, analogue and digital AES/EBU)

Energy efficient