Applications

► Monitoring of DAB services
► Rebroadcasting
► Audio Distribution Networks

Features

► Professional DAB/DAB+ audio receiver
► Cost-effective digital radio solution
► Receives up to 8 audio programs from DAB/DAB+ ensembles
► Broadcast quality XLR connectors
► Up to 8 RS-232 ports for RDS data (UECP)
► Programmable alarm array
► Control via front panel & display
► Remote control via web browser / SNMP
► Switch contacts for traffic announcement

Product Information

The Q877 is a professional 8-channel DAB/DAB+ audio receiver designed specifically for radio distribution and monitoring applications.

Based on Qbit's extensive heritage in audio contribution, the Q877 DAB+ Receiver offers a professional rebroadcast and monitoring receiver for 24/7 operation of DAB/DAB+ reception.

The Q877 was designed as an easy-to-use and cost-effective backup receiver for transmitter stations as well as monitoring of DAB/DAB+ key parameters such as RSSI, CNR, SNR, FFT Offset, FIC Quality and FIB Error Count.

The device can receive 2, 4 or 8 audio services depending on the version and decode them into digital (AES3) audio.

The Q877 converts PAD metadata to RDS, therefore offering UECP data (PS, RT, PI, PTY & CT) for rebroadcasting.

Furthermore, the Q877 provides switch contacts to signal road traffic announcements.

Specifications

DAB Tuner

- DAB, DAB+ Band III support (168-240 MHz)
- Compliant with ETSI EN 300 401 and ETSI TS 102 563
- Supports both MPEG Audio Layer 2 (DAB) and HE-AAC V2 (DAB+)
- Input connector: F-female, 75 Ω
- Input sensitivity: 17 to 110 dBuV

Audio Outputs

- 8 XLR connectors (male) for digital audio signals AES/EBU, electrical, XLR (IEC958)

Ancillary Data

- RS-232 Interface
- ○ Breakout cable (8 connectors, conversion from Sub-D 25 to Sub-D 9)

GPIO

- ○ 8 outputs (relay contacts) for traffic announcement signaling

Network

- 2 seperate Ethernet Interfaces (IEEE 802.3, RJ45, 100/1000 MBit/s)
  Control: Web Interface, SNMP and Ancillary Data
  Data: Transportstream via IP

System Configuration, Control and Monitoring

- Via Ethernet with web browser
- Via Ethernet with SNMP
- Via front panel display and jogwheel

Power Supply

- Integrated switching power supply, input voltage: 100 to 240 V +-10%, 50 to 60 Hz
- ○ -48 V DC power supply
- Power consumption: < 10 W
- ○ Redundant power supply protects the operation of the device and measures the power supply voltages. Values are provided via web GUI or SNMP.

Housing

- Dimensions: 19" rack mount cabinet, 1 U (483 mm x 360 mm x 44 mm)
- 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

Legend: ● Default   ○ Optional

Management and Control

The Q877 DAB/DAB+ Receiver can be managed conveniently via front panel and the integrated web interface with all common web browsers.

Monitoring and control is also possible 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.

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 warranty
- ○ Hardware warranty extension up to 10 years

- ○ Service Contract Basic (Updates, Email support) (mandatory)

- ○ Service Contract Advanced (Updates, Email- and phone support, replacement devices etc.)

Legend: ● Default   ○ Optional