

PRODUCT INFORMATION

Qbit's Q806 MPX Redundancy Switch brings easy and flexible redundancy control to your MPX or Digital AES Audio signals.

The **Q806 MPX Redundancy Switch** has two signal paths for each analog as well as digital signals. Each path has two inputs and one output. The decision of which signal is routed to the output can either be set manually by the user or automatically by the system. In automatic mode, this decision is based on monitoring / measuring all available input signals and by configuring various switching criteria.

The system is built using latching relays, guaranteeing uninterrupted transmission of the configured input signal during power failure.

For signal monitoring / measurement, all input signals (analog, AES3) are converted into digital and processed by a digital signal processor (DSP).

Redundant power supplies, additional monitoring outputs at the rear and front (MPX, headphone) ensure safe operation.

The optional front panel display with jogwheels adds further possibilities for convenient and simple handling of the Q806.

MPX REDUNDANCY SWITCH
DIGITAL/ANALOG MPX SWITCHING
AES SWITCHING

Q806 MPX REDUNDANCY SWITCH

FEATURES

- MPX Digital Redundancy Switching
- MPX Analog Redundancy Switching
- Digital AES Audio Redundancy Switching
- 2 separate Input Redundancy Paths (can be switched together or separately)
- Automatic and Manual Operation Modes
 - based on switching criteria
 - manual mode with fixed input activation
 - super user mode
- power failure resistant (currently selected input is being transported during power failures)
- powerful monitoring
 - MPX levels
 - signal status
 - RDS level
 - audio parameters
 - monitoring outputs on front and rear panel
- configurable alarms
- convenient management via web browser, SNMP, front panel (limited)
- low power, low maintenance

APPLICATIONS

- MPX Redundancy Switching (Analog and Digital)
- AES Audio Redundancy Switching (Digital)

MANAGEMENT AND CONTROL

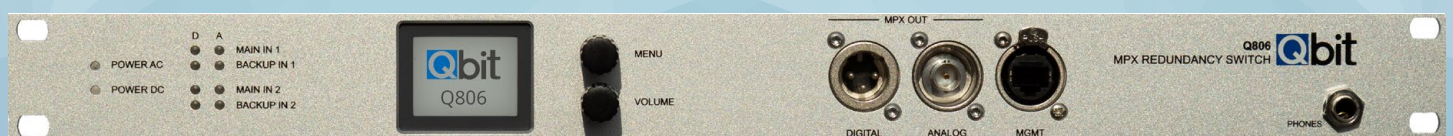
The Q806 MPX Redundancy Switch can be managed conveniently via the integrated web interface with all common web browsers.

The device can be monitored and managed via SNMP.

The optional display and jog wheel allow quick and easy switching onsite.

Configurable alarms automatically inform your systems about

events and errors



SPECIFICATIONS

Inputs (all on Rear Panel)

- Channel 1 Main and Backup Digital (2x AES/XLR)
- Channel 1 Main and Backup In Analog (2x BNC 75 Ohm)

- Channel 2 Main and Backup In Digital (2x AES/XLR)
- Channel 2 Main and Backup In Analog (2x BNC 75 Ohm)

Outputs Rear Panel:

- Channel 1 Digital (1x AES/XLR)
- Channel 1 Analog (1x BNC 75 Ohm)
- Channel 2 Digital (1x AES/XLR)
- Channel 2 Analog (1x BNC 75 Ohm)

- Monitor Digital (1x AES/XLR)
- Monitor Analog (1x BNC 75 Ohm)

Outputs Front:

- Monitor Digital (1x AES/XLR)
- Monitor Analog (1x BNC 75 Ohm)
- Headphone (1x 6,3mm)

Sampling Rate:

- 32kHz, 48 kHz

Ancillary Data:

- via IP (UECP over UDP)
- transport of Ancillary Data via UECP within the MPEG-2 transport stream

Operation Modes:

- Automatic, based on criteria (on/off/thresholds/timing) for:
 - Signal Lock
 - Pilot Level
 - RDS Level
 - BER
 - Audio Silence
- manual (via web interface/SNMP)
- manual (via jog wheel)

Network Interfaces:

- 2 Ethernet interfaces for management and control (IEEE 802.3ab, RJ45, 10/100/1000MBit/s)
 - 1x Rear
 - 1x Front

System Configuration and Control:

- via Ethernet with web browser
- via Ethernet with SNMP

- via Front Panel Display and Jog Wheel

Monitoring:

- all monitoring data can be accessed via web interface and SNMP

Power Supply:

- integrated switching power supply, input voltage: 100 to 240 V +10%, 50 to 60 Hz
- -48V DC power supply (Neutrik PowerCON connector)
- power consumption: <50W

○ 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
- weight: < 5 kg

Environment:

- operation temperature: -10°C to 50°C
- storage temperature: -20°C to 70°C
- humidity: up to 95%, non-condensing at 40°C

Key: ● Default ○ Options

Q806 MPX REDUNDANCY SWITCH

ORDERING OPTIONS

Q806 MPX REDUNDANCY SWITCH

Q806	MPX Redundancy Switch - Remote controlled
Q806 Front Panel Control	Front Panel control option with color display and jog wheel

SIMILAR PRODUCTS

Q505 Audio Redundancy Switch (2x2 Stereo Analog/Digital Audio Redundancy Switch)
Q507 AES/RS-232 Splitter (4 to 8x AES3 & RS-232 splitting)
Q513 AES Distributor (1 to 8x AES XLR redistribution)
Q514 RS-232 Distributor (1 to 8x RS-232 redistribution)

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

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