QARION® Pro

Applications

- Integrate baseband audio signals into RAVENNA networks
- Monitoring and analyzing RAVENNA streams
- Studio applications

Features

- RAVENNA, Livewire+™, AES67 and ST2110-30/-31 compliant
- Microphone input
- Headphone output
- USB audio interface
- NMOS IS-04, IS-05
- Remote control using REST API, SNMPv2c, EmBER+
- PoE powered
- 4 Ethernet ports
- State-of-the-art security

The compact RAVENNA node.

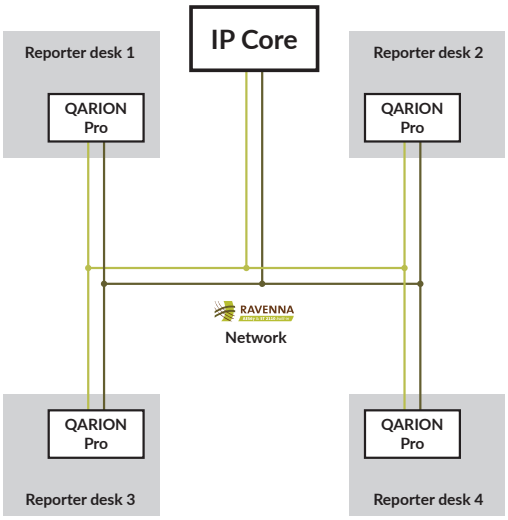
The QARION Pro converts one stereo channel from AES3 or analog baseband audio to RAVENNA or vice-versa.

Additionally, it is equipped with a headphone output and a microphone amplifier, making it the perfect studio companion.

It is the perfect solution to monitor and check all the streams in your RAVENNA network.

Using an optional license, the QARION Pro can be used as an audio codec, including SRT support for reporting applications.

Example application: Reporter desks



Make reporter desks RAVENNA native by connecting the microphone and headphone to the QARION Pro, as well as ingesting computer audio using USB.

Reduce the number of cables required, removing potential failure sources in larger setups.

Audio processing can be done by an IP audio core in the network.

The remote control capabilities of the QARION Pro allow flawless integration into large installations.

WE TRANSPORT YOUR AUDIO

Specifications

Microphone Input

Female XLR connector on front panel

Software switchable +48V phantom power

Headphone Output

Female ¼" TRS connector (6.3mm) on front panel

Output level software controllable

Line/AES3 Audio Input

2 female Neutrik XLR connectors (L/R), left connector shared between left analog and AES3 input on back panel

Supported sampling rates	48, 96, 192 kHz
Analog characteristics	● THD+N @ 1 kHz: < 0.003 % ● Crosstalk attenuation @ 1 kHz: > 100 dB ● Frequency response @ 48 kHz: 20 Hz .. 20 kHz (+0/-0.3 dB)

Line/AES3 Audio Output

2 male Neutrik XLR connectors (L/R), left connector shared between left analog and AES3 output on back panel

Supported sampling rates	48, 96, 192 kHz
Analog characteristics	● THD+N @ 1 kHz: < 0.003 % ● Crosstalk attenuation @ 1 kHz: > 100 dB ● Frequency response @ 48 kHz: 20 Hz .. 20 kHz (+0/-0.3 dB)

USB Audio Input/Output

USB-C connector on back panel

USB 2.0, Audio class compliant, no driver needed

8 Input and 8 Output channels

IP Audio Input/Output

RAVENNA, Livewire+™, AES67, ST2110-30/-31 compliant

Up to 16 RAVENNA streams

Up to 64 channels per stream

Channel assignment by internal crossbar

Network Interfaces

2 Copper (RJ-45) and 2 SFP Gigabit Ethernet interfaces

Dual Streaming according to ST2022-7

Isolation of all networks by integrated firewall

Roles can be freely assigned to any of the interfaces

System Configuration, Control and Monitoring

HTML5 Web UI

Remote Control	● REST API ● EmBER+ ● NMOS IS-04/IS-05

Color display with jog wheel on front panel

Power

Power Supply	● 12 V DC input (Barrel jack, Power supply included) ● PoE
Power Consumption	< 10 W

Physical Parameters

Chassis	Metal case
Size (W/D/H)	152 mm / 152 mm / 44 mm
Weight	0.5 kg

Environmental Conditions

Operating temperature	0 to 45 °C
Storage temperature	-20 to 70 °C
Humidity	< 95 % (non-condensing)

Legend: ● Default ○ Optional

Hardware Options

- ○ Under-desk mounting kit
- ○ Tripod thread (¼") mounting kit
- ○ 19" 1U rack mounting kit for 2 units

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Qbit
Stegwiesenstr. 34
76646 Bruchsal
Phone: +49 7251 93193 0
Mail: sales@qbit.de
Internet: www.qbit.de