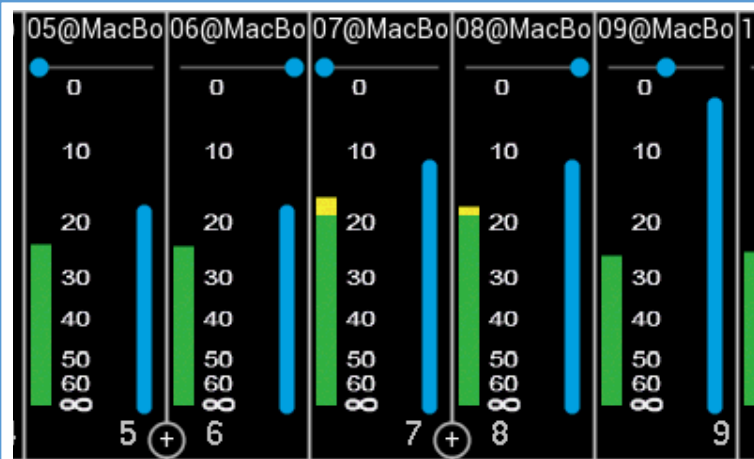
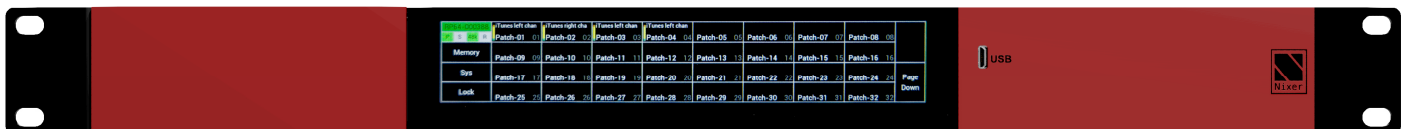




Nixer RP64

Audio over IP Digital Patch Panel

A range of compact 64 input, 64 output 1RU 19" digital patch bays designed for Theatre, Fixed Install and Broadcast and available for Dante or Ravenna networks.

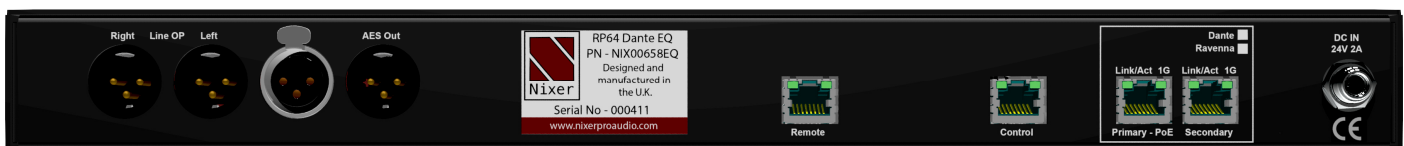


Product Description

Based on the latest Nixer audio processor, the RP64 is a 64 input to 64 output digital Audio over IP 'patch' panel. Using an intuitive interface, it is possible to connect any input to any output. The RP64 patching connections are made near instantaneously. This facilitates the quick and easy repatching of critical signals without having to use a laptop and Dante Controller, with the inherent delays this brings to making or breaking audio crosspoints. Any input can be routed simultaneously to multiple outputs. In addition the RP64 EQ has three band EQ, level control and limiter, plus XLR AES3 input, AES3 output and Stereo Line Output.

RP64 Key Points

- Simple and Intuitive Operation to rapidly route critical signals from a dedicated operator/engineering position
- 64 inputs, 64 outputs (@ 48kHz) (RP64); 66 inputs, 68 outputs (@ 48kHz) (RP64 EQ)
- Three band EQ, Level Control and Limiter per input - RP64 EQ only
- AES3 input, AES3 output plus Stereo Line Output - RP64 EQ only
- No external laptop and cumbersome software patching
- Near-instantaneous audio switching
- Large colour LCD touchscreen for quick and easy re-patching of critical signals
- Reset and recall route status from memory
- Compact 1RU design (less than 120mm deep) for deployment in any frame, desk or custom location
- PoE power or via external DC input for power redundancy
- Primary and Secondary network ports
- OSC control via RJ45 (under development, contact Sales for further information).
- Dante and Ravenna Versions available (Specified at time of order)



3 base configurations

RP64 EQ Rear Panel

- RP64 64 input, 64 output patch unit, front panel touchscreen display and Dante or Ravenna I/O only
- RP64 EQ 66 inputs with 3 band EQ, 68 output patch unit, front panel display, stereo line out and AES I/O
- RP64 CV2¹ 66 inputs with 2 band EQ, 68 output patch unit, no front panel display, stereo line out and AES I/O

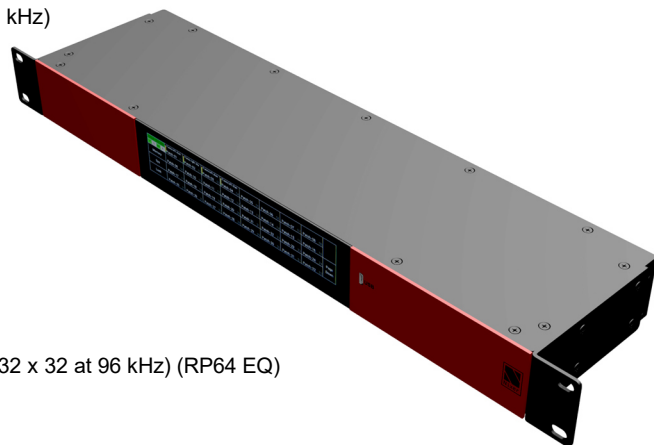
Power to the RP64 can be either via PoE on the Primary RJ45 port and/or via the 24V DC power input. Using both PoE and the DC input enables power redundancy. Also, on the rear panel there is a secondary RJ45 port for either redundant or switched AoIP connections. In addition to this there is a Control port for controlling the RP64 via OSC and a Remote RJ45 port for use with optional hardware remotes.

¹ See individual datasheets for further details

Please Note, the remote port is not compatible with standard ethernet

Specifications RP64 EQ

1. Patching of up to 64 channels (66ch RP64 EQ) at 48kHz (32 channels at 96 kHz)
2. Sample rates supported
 - a. 44.1kHz
 - b. 48kHz
 - c. 88.2kHz
 - d. 96kHz
3. Bit Depth supported
 - a. 16bit
 - b. 24bit
 - c. 32bit
4. Dante or Ravenna option - select at time of order
5. AES67 compatible
6. SMPTE 2110 compatible
7. Fully compatible with New Dante Domain Manager – Dante option only
8. 64 x 64ch patch matrix (32 x 32 at 96 kHz) (RP64); 66 x 68ch patch matrix (32 x 32 at 96 kHz) (RP64 EQ)
 - a. Patch one input to one output
 - b. Patch one input to many outputs
 - c. Patch AES input to any output
 - d. Patch any input to AES output
 - e. Patch any input to the Line Output
9. 66 channel meters
 - a. High resolution meters – 32 visible at a time
10. RP64 EQ 64 input signal processors* - each channel has the following
 - a. Three band EQ
 - i. low shelf
 - ii. Mid band parametric
 - iii. hi shelf
 - b. Output level control
 - c. Limiter
 - d. * When using the AES input the number of signal processors available is reduced to 62
11. Dual 1Gbps RJ45 Dante inputs
 - a. 1Gbps or 100Mbps operation
 - b. User configurable for Switched or Redundant operation
 - c. Network configuration information available via menu
12. Power input via
 - a. PoE (13W) on Primary RJ45 connector
 - b. 2.1mm DC inputs socket for use with external 24V 2amp adaptor
 - c. Both power inputs can be active at the same time for redundancy
13. USB port is also used for product firmware updates
14. Dual Balanced Line Outputs 0dBFS = +21dBu maximum output into 600ohms 2x 3pin male XLR connectors
 - a. Fed from any input
 - b. Output Mute relays
15. Stereo AES3 output on 3pin male XLR connector (RP64 EQ)
 - a. Fed from any input
16. Stereo AES3 Input on 3pin female XLR connector (RP64 EQ)
 - a. SRC converts from 44.1kHz, 48kHz or 96kHz to RP64 EQ sample rate
 - b. AES3 routing to any output
17. Wired remote control option on RJ45 connector
 - a. RS485 balanced TX and RX pairs
 - b. 5V feed to connected device (up to 200mA)
 - c. Note: this connector is not compatible with standard ethernet connectors
18. LCD
 - a. 6.6" (168mm) diagonal 24—bit colour LCD with 1440 x RGB x 240 resolution
 - b. LED backlight (adjustable brightness via software)
 - c. multi touch capacitive touch overlay with gesture support
19. Dimensions 494mm wide by 120mm deep by 44mm height
20. Weight 1.0 kg



Dante® is a registered trademark of Audinate Pty Ltd.
Ravenna is an open technology standard from ALC Network GmbH

Ordering Information

Dante Patch & Ravenna Patch

RP64 Dante
NIX00658

RP64 Dante - 1U rack mounted 64 channel Dante patch unit - featuring a 64 input x 64 output electronic patch bay with large LCD display, PoE powered with redundant 24V DC input, redundant network connectors, AES67 compatibility, OSC control via separate Control RJ45 port. Harmonised Code: 8519890000

NIX00658EQ

As above plus 3 band EQ, level control and limiter on inputs and XLR AES3 I/O & Stereo Line O/P

RP64 Ravenna
NIX00658R

RP64 Ravenna EQ - 1U rack mounted 64 channel Ravenna patch unit featuring a 64 input x 64 output electronic patch bay, large LCD display, PoE powered with redundant 24V DC input, redundant network connectors, AES67/SMPTE 2110 compatibility, OSC control via separate Control RJ45 port. Harmonised Code: 8519890000

NIX00658REQ

As above plus 3 band EQ, level control and limiter on inputs and XLR AES3 I/O & Stereo Line O/P

Optional Extras

NIX00583

PoE PSU Kit - Power supply, blade kit and 2M RJ45 Cat6 flat cable

NIX00629

24V 1.5A Power adaptor 90-264VAC input with multi-blade adaptors. 2.5mm screw lock plug