

# Nixer RP64 CV2

## Audio over IP Digital Patch Panel

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

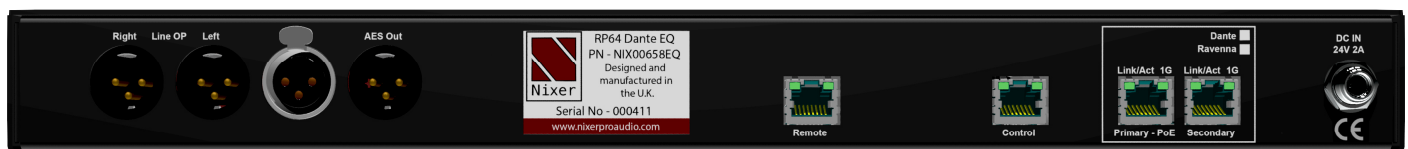


## Product Description

Based on the latest Nixer audio processor, the RP64 CV2 is a 64 input to 64 output digital Audio over IP 'patch' panel operating at 48kHz. Any input is connected to any output via OSC control. Any input can also be routed to multiple outputs simultaneously. The RP64 CV2 patching reconnection is near instantaneous. In addition to this each input stream has three band EQ, Level control and Limiter. There is an AES input, AES output and a Stereo Line Output.

### RP64 CV2 Key Points

- Simple and Intuitive Operation to rapidly route critical signals from a dedicated operator/engineering position in the event of equipment failure
- 64 inputs, 64 outputs (@ 48kHz)
- Three band EQ per input, Level Control and Limiter
- AES input, AES output plus Stereo Line Output
- No external laptop and cumbersome software patching
- Near instantaneous audio switching
- 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 purchase)



### 3 base configurations

- RP64<sup>1</sup> 64 input, 64 output patch unit, front panel display
- RP64 EQ<sup>1</sup> 66 inputs with 2 band EQ, 68 output patch unit, front panel display, stereo line out and AES I/O
- RP64 CV2 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.

<sup>1</sup> See individual datasheets for further details

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

## Specifications RP64 CV2

1. Patching of up to 64 channels 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—at time of purchase
5. AES67 compatible
6. SMPTE 2110 compatible
7. Fully compatible with New Dante Domain Manager – Dante option only
8. 66 x 68 channel patch matrix (34 x 36 at 96 kHz)
  - 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. 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
  - a. Fed from any input
16. Stereo AES3 Input on 3pin female XLR connector
  - 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. Dimensions 494mm wide by 120mm deep by 44mm height
19. 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 CV2 Dante

**NIX00656**

RP64 CV2 Dante - 1U rack mounted 64 channel Dante patch unit with EQ - featuring a 66 input x 68 output electronic patch bay with 2 band EQ on each input, No Display, PoE powered with redundant 24V DC input, redundant network connectors, AES67 compatibility, OSC control via separate Control RJ45 port, stereo line outputs (2 x 3 pin male XLR), AES input (3 pin female XLR), AES output (3 pin male XLR) - Harmonised Code: 8519890000

#### RP64 CV2 Ravenna

**NIX006568R**

RP64 CV2 Ravenna - 1U rack mounted 64 channel Ravenna patch unit with EQ - featuring a 66 input x 68 output electronic patch bay with 2 band EQ on each input, No Display, PoE powered with redundant 24V DC input, redundant network connectors, AES67/SMPTE2110 compatibility, OSC control via separate Control RJ45 port, stereo line outputs (2 x 3 pin male XLR), AES input (3 pin female XLR), AES output (3 pin male XLR) - Harmonised Code: 8519890000

#### 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