

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

RACK-UP[®] SERIES Models RU-FN & RU-FNP Format-A to Network Interface

- Converts RDL Format-A and Aux Source to Four Dante Network Channels
- Easy Installation with Format-A Connections on RJ45 through CATx Cable
- Format-A Audio Sources from Pairs A, B and C Converted to Dante
- Fourth Dante Audio Channel Fed from Unbalanced or Balanced Aux Line Input
- Front-Panel Gain Adjustment with Dual-LED VU Meter for Aux Input
- Signal LEDs Indicate Audio for Each of the Three Format-A Pairs
- High Resolution 24 Bit Analog to Digital Conversion
- Legendary RDL Analog Filtering Enhances Superb Audio Performance
- Powers Remote Format-A Senders through Format-A Input Jack
- LED Indicators Show Network Sync Status
- Normal or Hot-Standby Operation from PoE (Model RU-FNP)
- Compatible with Wide Array of RDL Format-A Active and Passive Senders
- Equipped for Rack Mounting or Surface Mounting



The RU-FN modules are Dante audio network interface products compatible with RDL Format-A twisted pair products. These modules are designed to be mounted in equipment racks, closets, conference tables and on shelves or backboards in commercial/industrial installations.

APPLICATION: The RU-FN is an RDL Format-A receiver that connects to a Dante-enabled network. It converts the three Format-A audio pairs to Dante networked digital audio channels. Each network channel corresponds to Pair A, B or C of the Format-A input. The unit converts a fourth input, balanced or unbalanced line-level AUX, to Dante.

One front-panel green signal LED corresponds to each of the three Format-A input channels. Received audio level is indicated on the variable-intensity LED indicator, facilitating setup when a networked computer is not connected at the module's location. A Dual-LED VU meter facilitates adjustment of the front-panel AUX input gain control. The AUX input supports the complete range of normal unbalanced and balanced line-level sources.

The Format-A input jack provides up to 200 mA of power to connected Format-A senders. Multiple senders may be daisy chained from the Format-A input jack.

The RU-FN Format-A input supports the entire range of Format-A senders, making each input pair available for end-user connection on various wall plates, or receiving signals from other equipment using rack-mounted, shelf-mounted or utility Format-A senders. The wide array of Format-A senders provides compatibility with commercial audio equipment operating at standard professional levels. High resolution digital audio converters coupled with RDL's renowned analog filters provide superior fidelity with a very low noise floor. Each Format-A sender may be connected near the RU-FN or up to several thousand feet distant.

The RU-FN is powered from an external 24 Vdc power supply, available separately. The external supply powers the RU-FN and Format-A senders connected to the Format-A input. The RU-FNP is equipped for PoE which powers the RU-FN and the connected Format-A senders. If PoE power and an external 24 Vdc supply are both feeding an RU-FNP, the unit will run from the external supply and will seamlessly switch over to PoE power upon loss of the external 24 V supply. The power feeding the Format-A RJ45 connector is separately protected by an automatically resetting fuse. A power LED is associated with the connector, facilitating identification of wiring faults.

PoE relies on the use of a PoE enabled network switch. The RU-FNP will reserve power from the switch even while being powered from an external 24 Vdc supply.

The RU-FN is constructed in a durable, professional all-metal enclosure suitable for free-standing, surface-mounted or rack-mounted operation. This full-featured product is engineered and manufactured in the U.S.A for continuous duty in demanding installations. Built to last. Built to outperform.

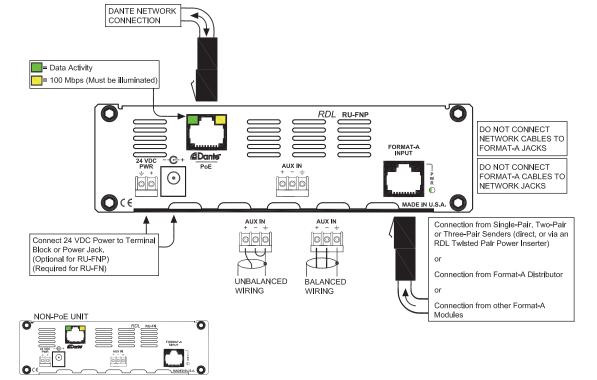


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Installation/Operation EN55103-1 E1-E5; EN55103-2 E1-E4 Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.



TYPICAL PERFORMANCE

Network Connector: Digital Audio Ethernet Protocol: Transmission Rate: Sample Rates Supported: Bit Depth Supported: Audio Operating Levels:

Format-A Input Format-A Signal Pairs Used (3): Frequency Response: THD + N: Noise below +4 dBu: CMRR: Crosstalk: Headroom above +4 dBu:

<u>AUX Input</u> Input: Input Impedance: Input Level for +4 dBu: Frequency Response: RJ45 with Link and Speed indicators Dante 100 Mbps 44.1 kHz, 48 kHz (default) 24 bits -20 dBFS = +4 dBu

RDL Format-A RJ45 A, B, C 20 Hz to 20 kHz (± 0.5 dB) < 0.1% < -75 dB > 90 dB (50 to 120 Hz, any input pair) < 80 dB (20 Hz to 20 kHz) > 18 dB

Balanced, detachable terminal block $>20\ k\Omega$ -16 dBu to +12 dBu, +22 dBu maximum 20 Hz to 20 kHz (\pm 0.75 dB)

THD+N: Noise below +4 dBu/-18 dBFS: CMRR: Crosstalk: Headroom above +4 dBu:

Indicators (11):

Power Connections (2): Ambient Operating Environment: Power Requirement:

PoE (RU-FNP): Dimensions: Package Type: Package Dimensions: Shipping Weight: WEEE weight: Tariff code: < 0.1% < -75 dB > 60 dB (50 to 120 Hz) < 80 dB (20 Hz to 20 kHz) > 18 dB

Power In (1); Power Out (1); Audio Signal LEDs (3), AUX Dual-LED VU Meter (2), Network Sys and Sync (2), Ethernet Link and Speed (2) Power Jack; Detachable Terminal Block 0° C to 40° C 24 Vdc @ 100 mA plus connected loads, or POE (RU-FNP) Class 0, IEEE 802.3af 5.8" (15 cm) W; 1.7" (4.3 cm) H; 5.2" (13.2 cm) D Cardboard Box 6 x 6 x 2.625 in. 1.585 lbs. (RU-FN); 1.61 lbs. (RU-FNP) 1.325 lbs. (RU-FN); 1.35 lbs. (RU-FNP) 8517.18.0050