



RDL®

High Performance Audio Products. Made in America.

Model EU-RN20 Wall-Mounted Mic/Line Input Dante Interface 2 x 0



Field-Replaceable Black Laminate Included
Black Cover Plate not Included

EU-RN20 (As Shipped)

Rear with Mounting Bracket Installed

- EU Series Dante or AES67 Network Interface for Two Audio Inputs
- Two Front-Panel Mic/Line Inputs on Balanced XLR Jacks
- RDL Studio-Quality Preamplifiers for Mic Inputs
- Preamplifiers are Independent from A to D Converters
- Software-Selected Input Gain; Mic: 35 dB, 45 dB or 59 dB; Line: Unity or 12 dB
- P48 Mic Phantom Selected by Software for Mic Inputs
- Module is Configured and Adjusted Using RDL CONSOLE or Other Network Control Software
- Compatible with RDL Network Remote Controls
- High Resolution 24 Bit Analog to Digital Conversion
- Legendary RDL Studio Quality, Low-Noise Performance
- Fits 60 mm Deep European Electrical Box Using Included Adapter Plate
- Supplied With White Cover Plate and Alternate Black Front-Panel Laminate

APPLICATION: The EU-RN20 is a complete wall-mounted Dante or AES67 mic and line audio input network interface. It features two XLR mic or line inputs on the front panel. The module is configured and adjusted using RDL CONSOLE or other network control software. The EU-RN20 fits a standard 60 mm deep European electrical box. The EU-RN20 is PoE powered and is supplied with a white front panel and cover plate. A field-installable black front panel laminate is included with the EU-RN20.

The two XLR inputs are each converted to a separate Dante network transmit channel. Five gain settings are software-selectable for each XLR input. Three gain settings are provided to match condenser or dynamic microphones. Two gain settings are provided to match standard line levels. P48 phantom voltage may be software enabled when an input is set for mic level.

Valid PoE power and synchronization to the Dante network are indicated by a green LED visible from the front of the unit.

The EU-RN20 is a professional grade product with RDL mic preamplifiers for studio quality fidelity and low noise performance, coupled through XLR jacks housed in a steel chassis finished with a reverse-printed laminate. Exceptional performance is made possible by RDL preamps in lieu of the consumer grade preamplifiers bundled with typical A to D converters.

The EU-RN20's superior performance specifications make it ideally suited to installations requiring network control and exceptional value in commercial networked audio systems. This full-featured product is engineered and manufactured in America with quality U.S. and imported components for continuous duty in demanding installations. Designed to outperform. Built to last.

Field-replaceable Black Laminate included. Black cover plate not included.

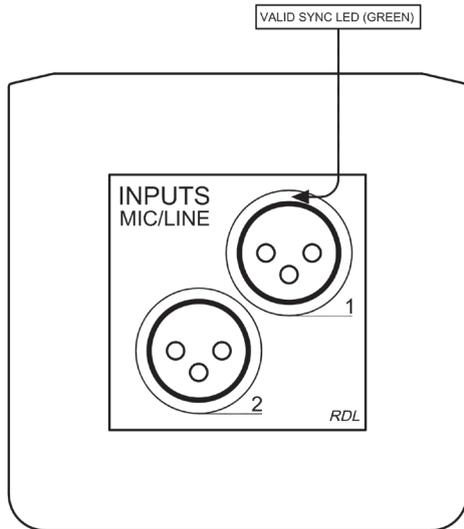


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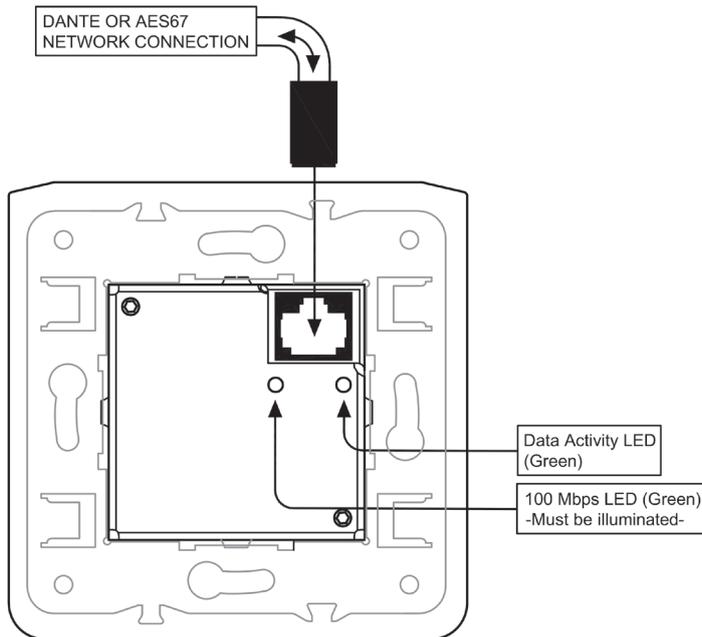
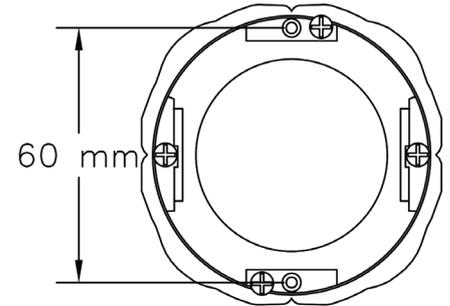
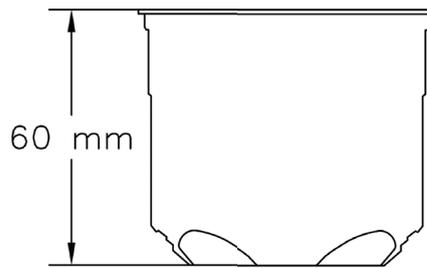
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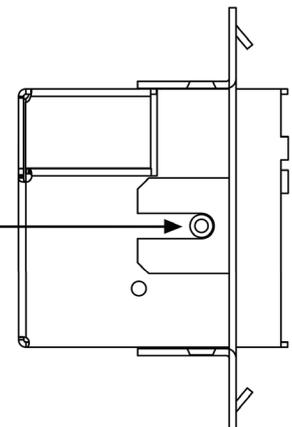
This product is not specified to provide basic insulation from network cabling not installed wholly within the same building structure or terminated on equipment earthed to a different earthing network.



The EU-RN20 requires a 60 mm deep junction box.



4 x Torx Screw
Hand tighten only; Do NOT overtighten.





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Installation/Operation

CE Declaration of Conformity available from rdlnet.com.
Sole EMC specifications provided on product package.
Specifications are subject to change without notice.

TYPICAL PERFORMANCE

Network Connector:	RJ45 with Link (Data Activity) and Speed indicators
Digital Audio Ethernet Protocol:	Dante or AES67
Transmission Rate:	100 Mbps
Sample Rates Supported:	44.1 kHz, 48 kHz (default), 88.2 kHz, 96 kHz
Bit Depth Supported:	24 bits
Audio Operating Level:	-18 dBFS = +4 dBu
Reference Level:	0 dBFS = +22 dBu

Mic/Line Inputs to Network Section

Inputs (2):	XLR (female)
Gain:	Mic: 35 dB (LOW), 45 dB (MED), 59 dB (HIGH); Line: Unity (NORM), 12 dB (HIGH)
Input Level (for +4 dBu/-18 dBFS):	Mic: -31 dBu (LOW), -42 dBu (MED), -56 dBu (HIGH); Line: +4 dBu (NORM), -8 dBu (HIGH)
Input Level (maximum):	Mic: -14 dBu (LOW), -24 dBu (MED), -38 dBu (HIGH); Line: +23 dBu (NORM), +10 dBu (HIGH)
Input Impedance:	> 1.2 kΩ
Phantom Power:	P48, software-selectable
Standard for Phantom:	IEC 61938: 2013
Selectors per input (2)	Phantom, Gain, software-selectable
Frequency Response:	20 Hz to 20 kHz (± 0.5 dB)
Equivalent Input Noise:	< -126 dBu (59 dB gain); < -128 dBu A-Weighted
Noise below -18 dBFS (20 to 20 kHz):	Mic: < -86 dB (LOW), < -80 dB (MED), < -67 dB (HIGH); Line: < -88 dB (NORM), < -88 dB (HIGH)
THD+N:	< 0.1% (20 Hz to 20 kHz, +4 dBu/-18 dBFS)
CMRR:	> 65 dB (50 Hz to 120 Hz)
Crosstalk:	< -60 dB (20 Hz to 5 kHz at operating level, input to input, HIGH mic gain); < -70 dB (20 Hz to 20 kHz at operating level, input to input, MED or LOW mic gain; NORM or HIGH line gain)
Headroom above +4 dBu:	> 18 dB
Indicators (3):	Ethernet Link and Speed (2, rear panel); Sync (front panel)
Ambient Operating Environment:	0° C to 40° C
Power Requirement:	PoE Class 0, IEEE 802.3af
Specification Conditions:	Gain/Level: ± 1 dB; Source termination: 150 Ω; A to D values measured in digital domain
Dimensions:	1.77" (45 mm) W; 1.77" (45 mm) H; 1.86" (47.3 mm) D
Package Type:	Cardboard Box
Package Dimensions:	2.25 x 4.3 x 4.9 in.
Shipping Weight:	0.550 lb.
WEEE weight:	0.375 lbs.

Field-replaceable Black Laminate included. Black cover plate not included.

Safety Instructions/Consignes de sécurité/
Instrucciones de seguridad/Sicherheitshinweise:



EU Importer:
Importateur de l'UE:
Importador de la UE:
EU-Importeur:

RDL Europe B.V.
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1114 AN Amsterdam