Model EU-RN2ML
Wall-Mounted
Mic/Line and Line Input Dante Interface 2 x 0

Field-Replaceable Black Laminate Included
Black Cover Plate not Included

EU-RN2ML (As Shipped)

Rear with Mounting Bracket Installed

- EU Series Dante or AES67 Network Interface for Two Audio Inputs
- One Balanced Front-Panel XLR Mic-Level or Line-Level Input
- One Line-Level Summed-to-Mono Mini-jack Input
- RDL Studio-Quality Input Preamplifiers
- Preamplifiers are Independent from A to D Converters
- Software-Selected XLR Input Gain; Mic: 35 dB, 45 dB or 59 dB; Line: Unity or 12 dB
- P48 Mic Phantom Selected by Software for Mic Input

- Software-Selected Mini-jack Input Gain: Unity, Unity +5 dB, Unity -5 dB
- 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-RN2ML is a complete wall-mounted Dante or AES67 audio network interface. It features one XLR mic or line input on the front panel and one stereo Mini-jack line-level input summed to mono. The module is configured and adjusted using RDL CONSOLE or other network control software. The EU-RN2ML fits a standard 60 mm deep European electrical box. The EU-RN2ML 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-RN2ML.

The XLR input is converted to a Dante network transmit channel. Five gain settings are software-selectable for the 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 the XLR input is set for mic level.

The Mini-jack input is converted to one Dante network transmit channel. The left and right Mini-jack inputs are actively summed. Three software-controlled gain settings are provided to increase or decrease the gain by 5 dB from the normal gain setting, optimized for an input level of -10 dBV.

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

The EU-RN2ML is a professional grade product with an RDL mic preamplifier for studio quality fidelity and low noise performance, with audio coupled through XLR and Mini-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-RN2ML'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.

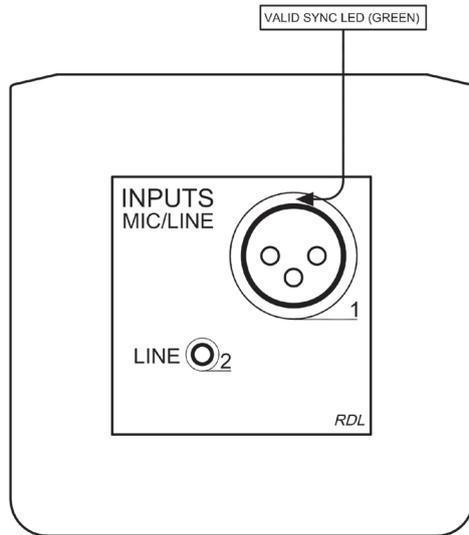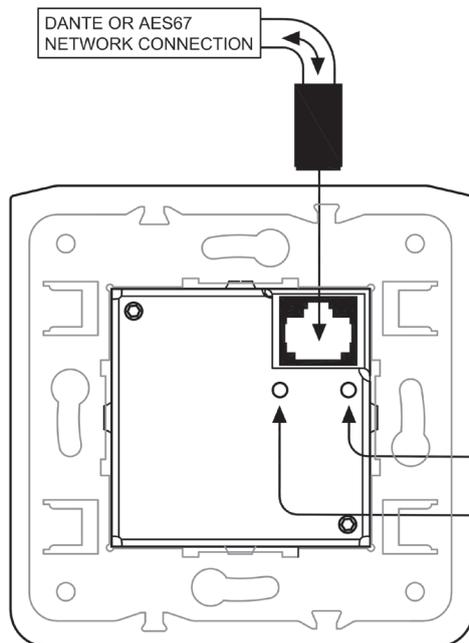Field-replaceable Black Laminate included. Black cover plate not included.
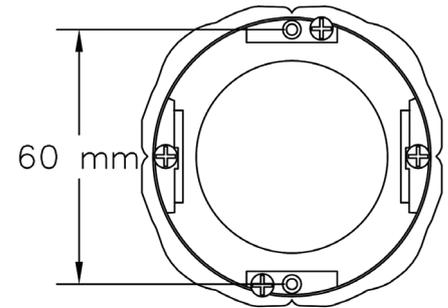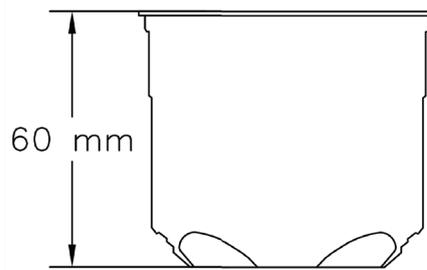
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This product is not specified to provide basic insulation from network cabling not installed wholly within the same building structure or terminated on equipment earthed to a different earthing network.

VALID SYNC LED (GREEN)

INPUTS MIC/LINE

LINE

1

2

RDL

The EU-RN2ML requires a 60 mm deep junction box.

60 mm

60 mm

DANTE OR AES67 NETWORK CONNECTION

Data Activity LED (Green)

100 Mbps LED (Green) -Must be illuminated-

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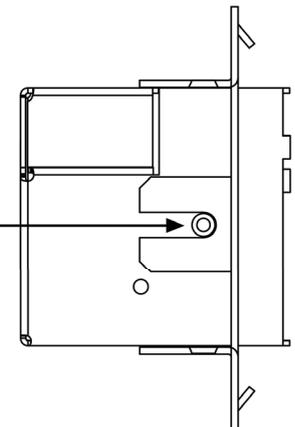
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Installation/Operation

**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 Input to Network Section

Input:	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:	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:	Below Noise Floor (20 Hz to 20 kHz at operating level, input to input, max. gain)

Line Input to Network Section

Input:	Mini-jack, Stereo input summed to mono
Gain:	Unity (NORM), -5 dB (LOW), 5 dB (HIGH)
Input Level (for +4 dBu/-18 dBFS):	L and R inputs driven: -10 dBV (NORM), -15 dBV (LOW), -5 dBV (HIGH); L input driven: -8 dBV (HIGH)
Frequency Response:	20 Hz to 20 kHz (± 0.35 dB)
Noise below -18 dBFS (20 to 20 kHz):	-84 dB (NORM), -86 dB (LOW), -79 dB (HIGH)
THD+N:	< 0.1% (20 Hz to 20 kHz, +4 dBu/-18 dBFS)

Indicators (4):	Ethernet Link and Speed (2, rear panel); Sync / Power (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" (4.50 cm) W; 1.77" (4.50 cm) H; 1.86" (4.73 cm) D
Package Type:	Cardboard Box
Package Dimensions:	2.25 x 4.3 x 4.9 in.
Shipping Weight:	0.625 lb.
WEEE weight:	0.372 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.
Joan Muyskenweg 124
1114 AN Amsterdam

891-7724