



RDL®

High Performance Audio Products. Made in America.

Model D SERIES-RN22 Wall-Mounted Bi-Directional Mic/Line Dante Interface 2 x 2



- Single-Gang Dante or AES67 Network Interface for Two Audio Inputs and Two Audio Outputs
- Two Front-Panel Mic/Line Inputs on Balanced XLR Jacks
- Two Balanced Rear-Panel Outputs on Detachable Wiring Block
- Software-Selected Input Gain; Mic: 35 dB, 42 dB or 59 dB; Line: Unity or 12 dB
- P48 Mic Phantom Selected by Software for Mic Inputs
- Outputs Equipped with Software-Controlled Attenuator in 1 dB Steps
- 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 and Digital to Analog Conversion
- Legendary RDL Studio Quality, Low-Noise Performance

APPLICATION: The D-RN22 is a complete wall-mounted Dante or AES67 audio network interface. It features two XLR mic or line inputs on the front panel and two balanced line outputs on a rear-panel detachable wiring block. The module is configured and adjusted using RDL CONSOLE or other network control software. The D-RN22 fits a standard US single-gang electrical box or an RDL WB-1U back box for installations in European or similar thinner walls. The D-RN22 is PoE powered and is available in multiple finishes with optional customized graphics.

Mic/Line to Network Section

The two XLR inputs are each converted to a separate Dante network transmit channel. Five gain settings are software-selectable for XLR inputs. 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.

Network to Line Section

Two Dante audio channels are converted to balanced line level feeding a rear-panel detachable wiring block. Each output provides +4 dBu balanced for a network digital audio level of -18 dBFS. Each output is equipped with a software-controlled attenuator adjustable in 1 dB steps to a maximum attenuation of 63 dB then OFF. The outputs may drive local power amplifiers or may feed additional XLR jacks mounted adjacent to the D-RN22 in a dual-gang box. Two XLR mic or line outputs may be provided using an RDL D-D2 equipped with two AMS-XLRMA jacks, available separately.

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

The D-RN22 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 with a powder-coated or stainless-steel Decora front plate.

The D-RN22'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 the U.S.A. for continuous duty in demanding installations. Designed to outperform. Built to last.

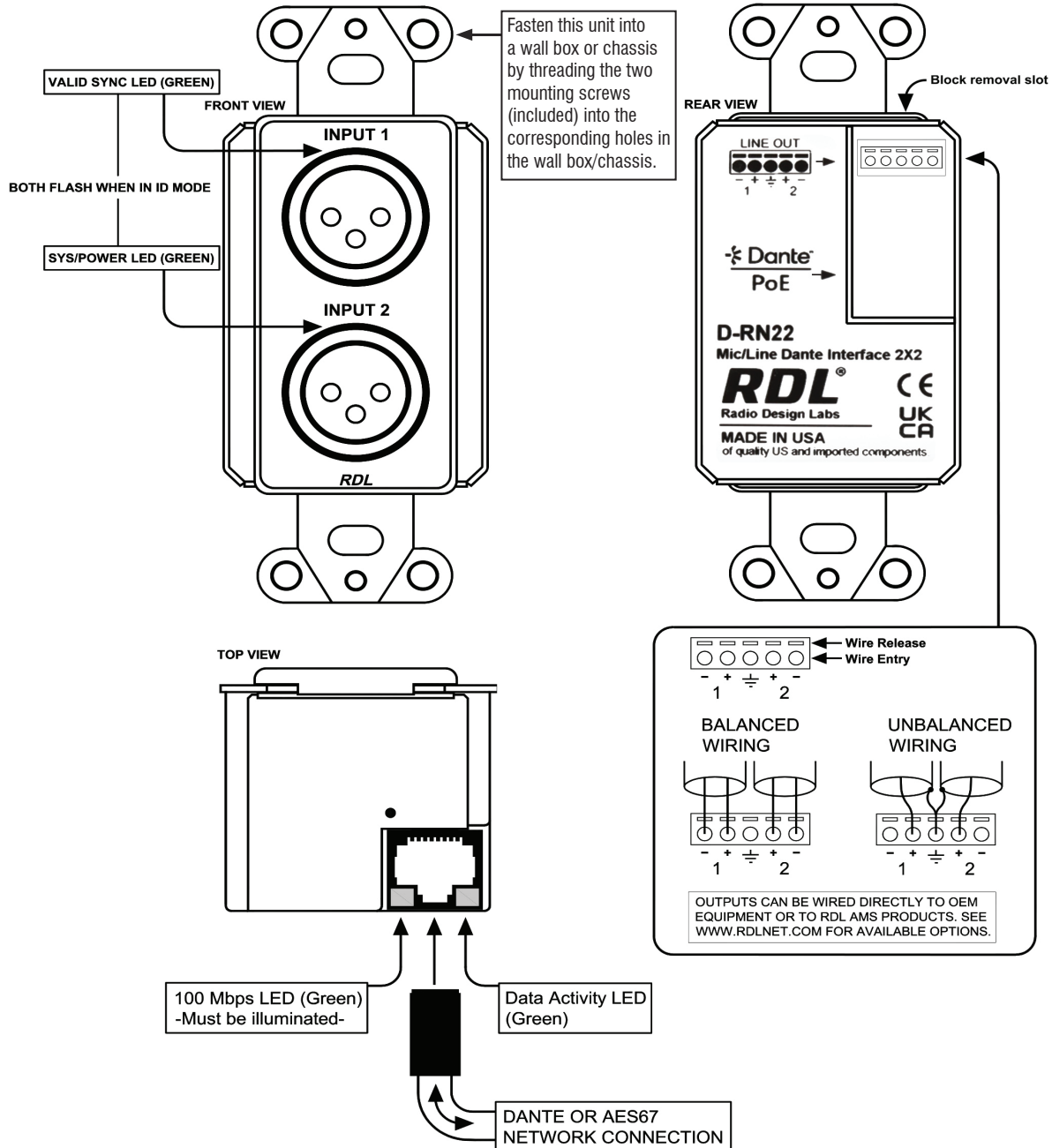


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This product is not specified to provide basic insulation from network cabling not installed wholly within the same building structure or terminated on equipment earthed to a different earthing network.



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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 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), 42 dB (MED), 59 dB (HIGH); Line: Unity (NORM), 12 dB (HIGH) |
| Input Level (for +4 dBu/-18 dBFS): | Mic: -31 dBu (LOW), -38 dBu (MED), -55 dBu (HIGH); Line: +4 dBu (LOW), -8 dBu (HIGH) |
| Input Level (maximum): | Mic: -14 dBu (LOW), -21 dBu (MED), -38 dBu (HIGH); Line: +23 dBu (LOW), +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: | < -128 dBu (59 dB gain); < -130 dBu A-Weighted |
| Noise below -18 dBFS (20 to 20 kHz): | Mic: < -88 dB (LOW), < -82 dB (MED), < -68 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. mic gain) |

Network to Line Outputs Section

| | |
|--------------------------------|--|
| Outputs (2): | Balanced, detachable wiring block |
| Output Level (operating): | +4 dBu (nominal) balanced |
| Output Level (maximum): | +22 dBu balanced |
| Output Attenuator: | Software-controlled, 0 to -63 dB and OFF (analog output per received network channel) |
| Output Impedance: | 150 Ω balanced |
| Frequency Response: | 20 Hz to 20 kHz (± 0.5 dB) |
| THD + N: | < 0.1% |
| THD: | < 0.01% (1 kHz) |
| Noise: | < -80 dB (below +4 dBu); < -100 dB (below +22 dBu) |
| Crosstalk: | Below Noise Floor (20 Hz to 20 kHz at operating level, output to output) |
| Headroom above +4 dBu: | > 18 dB |
| Indicators (4): | Ethernet Link and Speed (2, rear panel); Sync and Power (2, front panel) |
| Ambient Operating Environment: | 0° C to 50° 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: | 1.80" (4.57 cm) W; 4.11" (10.44 cm) H; 2.09" (5.31 cm) D |
| Package Type: | Cardboard Box |
| Package Dimensions: | 2.75" (6.99 cm) x 6.7" (17.02 cm) x 6.25" (15.88 cm) |
| Shipping Weight: | 0.7 lbs. (0.32 kg) |
| WEEE weight: | 0.44 lbs. (0.2 kg) |

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