NETWORKED AUDIO PRODUCTS

An Introduction to RDL’s Dante™-Enabled Products
Dante is a complete, reliable solution for high-performance audio distribution over standard IP networks, supporting hundreds of simultaneous channels of uncompressed audio with ultra-low latency and sub-microsecond synchronization accuracy. RDL’s Dante-enabled products interface standard microphone and line-level audio signals, and the entire group of RDL FORMAT-A endpoints to a Dante audio network.

RDL’s Format-A system is a family of compatible endpoint modules that send, receive and distribute mic and line-level audio and dc power over standard, dedicated CATx cable and connectors. RDL’s Format-A/Dante interface modules convert between Ethernet and Format-A, making more than 60 Format-A Decora-style end-user audio input and output modules Dante compatible.

**Network to Mic/Line Interface**

**Adapts Standard Audio Amplifiers to a Dante Network**

**FP-NML2 Features**

- Adapts Standard Audio Amplifiers to a Dante Network
- Converts Two Dante Network Audio Signals to Professional Line Level
- Each Output is Switch-Selectable for Mic or Line Level
- Line-Level Outputs Provide +4 dBu with >18 dB Headroom
- Exceptional Low-Noise and Low-Distortion Performance
- Crosstalk is Below the Noise Floor
- 24 Vdc Pass-Through Jack for Power Supply Sharing with RDL Amplifiers
- High Resolution 24 Bit Digital to Analog Conversion
- Legendary RDL Analog Filtering Enhances Superb Audio Performance
- Outputs Mute when Digital Audio Inputs areInactive
- Normal or Hot-Standby Operation from PoE (Model FP-NML2P)
- Equipped for Rack Mounting or Surface Mounting
Network to Mic/Line Interface with VCA

Adapts Standard Audio Amplifiers to a Dante Network & Provides VCA Capability

Format-A Bi-Directional Network Interface

Converts RDL Format-A and Aux Source to Dante, and Dante to Format-A

FP-NML2V Features

- Adapts Standard Audio Amplifiers to a Dante Network & Provides VCA Capability
- Converts Two Dante Network Audio Signals to Professional Line Level
- Separate VCA Provided for Each Output
- Outputs are Adjustable using RDL or OEM Remote Controls or 0 to 10 Vdc
- Individually Adjustable Outputs Ideal to Feed Two Separate Amplifiers
- Each Output is Switch-Selectable for Mic or Line Level
- Line-Level Outputs Provide >4 dBu with VCA at Maximum
- Output Amplifiers Provide >18 dB Headroom
- Exceptional Low-Noise and Low-Distortion Performance
- Crosstalk is Below the Noise Floor
- 24 Vdc Pass-Through Jack for Power Supply Sharing with RDL Amplifiers
- High Resolution 24 Bit Digital to Analog Conversion
- Legendary RDL Analog Filtering Enhances Superb Audio Performance
- Outputs Mute when Digital Audio Inputs are Inactive
- Normal or Hot-Standby Operation from PoE (Model RU-BNFP)
- Equipped for Rack Mounting or Surface Mounting

RU-BNF Features

- 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 Audio Source Format-A Pairs
- Converts Four Dante Network Audio Signals to RDL Format-A and Aux
- Three Dante Audio Signals Feed Format-A Output Pairs A, B and C
- Fourth Dante Audio Signal Feeds Auxiliary Balanced >4 dBu Line Output
- Format-A Pairs are Distributed to Three Separate Format-A Output Jacks
- Signal LEDs Indicate Audio for Each of the Four Received Dante Audio Signals
- Powers Remote Format-A Modules through Format-A Input and Primary Output Jack
- External 24 Vdc Supply Powers Format-A Receivers through All Format-A Output Jacks
- High Resolution 24 Bit Analog to Digital and Digital to Analog Conversion
- LED Indicators Show Network Sync Status
- Normal or Hot-Standby Operation from PoE (Model RU-BNFP)
- Compatible with Wide Array of RDL Format-A Active and Passive Senders and Receivers
- Equipped for Rack Mounting or Surface Mounting
**RU-LB2 Features**
- Converts Standard Line-Level Audio Sources to Dante Network Channels
- Line-Level Inputs Accept Unbalanced -10 dBV or Balanced +4 dBu Signals with >18 dB Headroom
- Front-Panel Gain Adjustment with Dual-LED VU Meter for Each Audio Input
- Converts Two Dante Network Audio Signals to Balanced Line Level

**RU-FN Features**
- 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

**Line-Level Bi-Directional Network Interface**
- Converts 2 Line-Level Audio Sources to Dante and 2 Dante Sources to Line Level
- Line-Level Outputs Provide +4 dBu with >18 dB Headroom
- Signal LEDs Indicate Audio for Each of the Received Network Signal Channels
- Interfaces Two Dante Inputs and Two Dante Outputs
- High Resolution 24 Bit Analog to Digital and Digital to Analog Conversion
- Legendary RDL Analog Filtering Enhances Superb Audio Performance

**Format-A to Network Interface**
- Converts RDL Format-A and Aux Source to 4 Dante Network Channels
- 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)

**RU-FN Features**
- Compatible with Wide Array of RDL Format-A Active and Passive Senders
- Equipped for Rack Mounting or Surface Mounting
Mic/Line Bi-Directional Network Interface

- Converts 2 Mic or Line Audio Sources to Dante and 2 Dante Sources to Line Level
- Converts 4 Line-Level Audio Sources to Dante and 4 Dante Sources to Line Level

RU-MLB2 Features
- Interfaces Two Dante Inputs and Two Dante Outputs
- Converts Two Standard Mic or Line Audio Sources to Dante Network Channels
- Each Input is Switch-Selectable for Mic or Line
- No User or Installer Gain Adjustments are Required
- Automatic Microphone Gain of 40 dB for Condenser Mics and 60 dB for Dynamic Mics

RU-LB4 Features
- Converts Standard Line-Level Audio Sources to Dante Network Channels
- Line-Level Inputs Accept Unbalanced -10 dBV or Balanced +4 dBu Signals with >18 dB Headroom
- Front-Panel Gain Adjustment with Dual-LED VU Meter for Each Audio Input
- Converts Four Dante Network Audio Signals to Balanced Line Level
- Line-Level Outputs Provide +4 dBu with >18 dB Headroom
- Signal LEDs Indicate Audio for Each of the Received Network Signal Channels
- Interfaces Four Dante Inputs and Four Dante Outputs
- High Resolution 24 Bit Analog to Digital and Digital to Analog Conversion
- Legendary RDL Analog Filtering Enhances Superb Audio Performance

Mic/Line Bi-Directional Network Interface

- Converts 2 Mic or Line Audio Sources to Dante and 2 Dante Sources to Line Level

RU-LB4 Features
- Line-Level Outputs Provide +4 dBu with >18 dB Headroom
- Signal LEDs Indicate Audio for Each of the Received Network Signal Channels
- Interfaces Four Dante Inputs and Four Dante Outputs
- High Resolution 24 Bit Analog to Digital and Digital to Analog Conversion
- Legendary RDL Analog Filtering Enhances Superb Audio Performance
- LED Indicators Show Network Sync Status
- Normal or Hot-Standby Operation from PoE (Model RU-LB4P)
- Equipped for Rack Mounting or Surface Mounting

RU-MLB2 Features
- P48 Phantom is Provided on Each Microphone Input
- Line-Level Inputs Accept Unbalanced -10 dBV or Balanced +4 dBu Signals with >18 dB Headroom
- Front-Panel Signal LED for Each Audio Input
- Converts Two Dante Network Audio Signals to Balanced Line Level
- Line-Level Outputs Provide +4 dBu with >18 dB Headroom
- Signal LEDs Indicate Audio for Each of the Received Network Signal Channels
- High Resolution 24 Bit Analog to Digital and Digital to Analog Conversion
- Legendary RDL Analog Filtering Enhances Superb Audio Performance
- LED Indicators Show Network Sync Status
- Normal or Hot-Standby Operation from PoE (Model RU-MLB2P)
- Equipped for Rack Mounting or Surface Mounting
RU-MLB4 Features
- Interfaces Four Dante Inputs and Four Dante Outputs
- Converts Four Standard Mic or Line Audio Sources to Dante Network Channels
- Each Input is Switch-Selectable for Mic or Line
- No User or Installer Gain Adjustments are Required
- Automatic Microphone Gain of 40 dB for Condenser Mics and 60 dB for Dynamic Mics
- P48 Phantom is Provided on Each Microphone Input
- Line-Level Inputs Accept Unbalanced -10 dBV or Balanced +4 dBu Signals with >18 dB Headroom
- Front-Panel Signal LED for Each Audio Input
- Converts Four Dante Network Audio Signals to Balanced Line Level
- Line-Level Outputs Provide +4 dBu with >18 dB Headroom
- Signal LEDs Indicate Audio for Each of the Received Network Signal Channels
- High Resolution 24 Bit Analog to Digital and Digital to Analog Conversion
- Legendary RDL Analog Filtering Enhances Superb Audio Performance
- LED Indicators Show Network Sync Status
- Normal or Hot-Standby Operation from PoE (Model RU-MLB4P)
- Equipped for Rack Mounting or Surface Mounting

RU-NFD Features
- Converts Four Dante Network Audio Channels to RDL Format-A and Aux
- Easy Installation with Format-A Connections on RJ45 through CATx Cable
- Three Dante Audio Signals Feed Format-A Output Pairs A, B and C
- Fourth Dante Audio Signal Feeds Auxiliary Balanced +4 dBu Line Output
- Format-A Pairs are Distributed to Three Separate Format-A Output Jacks
- Signal LEDs Indicate Audio for Each of the Four Received Signal Channels
- High Resolution 24 Bit Digital to Analog Conversion
- Legendary RDL Analog Filtering Enhances Superb Audio Performance
- Powers Remote Format-A Receivers through Primary Output Jack
- External 24 Vdc Supply Powers Format-A Receivers through All Output Jacks
- LED Indicators Show Network Sync Status
- Outputs Mute when Digital Audio Inputs are Inactive
- Normal or Hot-Standby Operation from PoE (Model RU-NFDP)
- Compatible with Wide Array of RDL Format-A Active and Passive Receivers
- Equipped for Rack Mounting or Surface Mounting
Network to Line Level Interface

**RU-NL2 Features**
- Converts Two Dante Network Audio Signals to Professional Line Level
- Line-Level Outputs Provide +4 dBu with >18 dB Headroom
- Exceptional Low-Noise and Low-Distortion Performance
- Crosstalk Below the Noise Floor
- Signal LEDs Indicate Audio for Each of the Dante Audio Sources
- High Resolution 24 Bit Digital to Analog Conversion

**RU-NL4 Features**
- Converts Four Dante Network Audio Signals to Professional Line Level
- Line-Level Outputs Provide +4 dBu with >18 dB Headroom
- Exceptional Low-Noise and Low-Distortion Performance
- Crosstalk Below the Noise Floor
- Signal LEDs Indicate Audio for Each of the Four Dante Audio Sources
- High Resolution 24 Bit Digital to Analog Conversion

**Network to Line Level Interface**

**Converting 2 Dante Network Audio Channels to Professional Line Level**

- Legendary RDL Analog Filtering Enhances Superb Audio Performance
- LED Indicators Show Network Sync Status
- Outputs Mute when Digital Audio Inputs are Inactive
- Normal or Hot-Standby Operation from PoE (Model RU-NL2P)
- Equipped for Rack Mounting or Surface Mounting

**Converting 4 Dante Network Audio Channels to Professional Line Level**

- Legendary RDL Analog Filtering Enhances Superb Audio Performance
- LED Indicators Show Network Sync Status
- Outputs Mute when Digital Audio Inputs are Inactive
- Normal or Hot-Standby Operation from PoE (Model RU-NL4P)
- Equipped for Rack Mounting or Surface Mounting
# Product Selection Guide

## Inputs Only (Unidirectional)

<table>
<thead>
<tr>
<th>Format and Inputs</th>
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<td>VCAs For Remote Level Control</td>
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For Up-to-Date Information on RDL's Dante-Enabled Products, Please Visit [rdlnet.com](http://rdlnet.com).