

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.

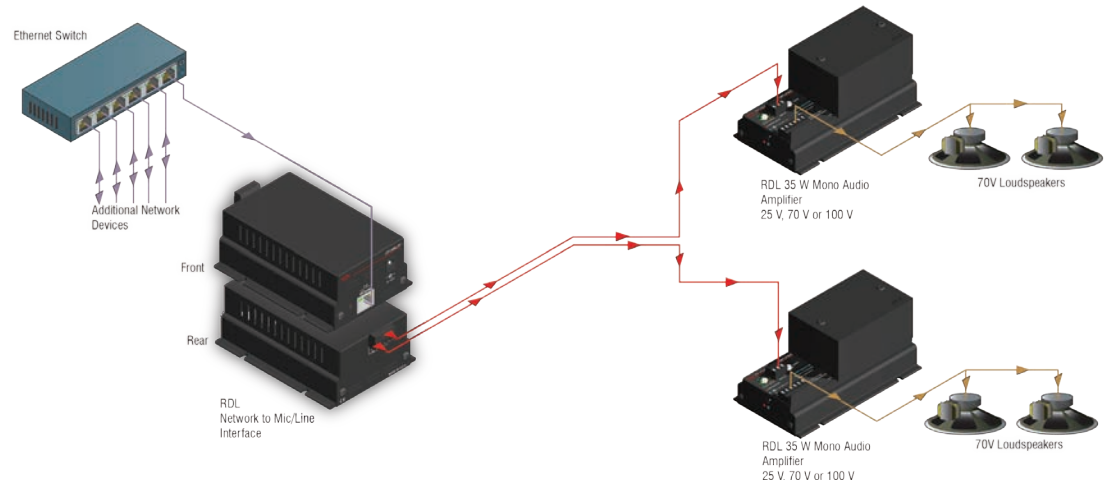


RDL's Format-A system is a family of compatible endpoint modules that send, receive and distribute mic and line-level audio and dc power over standard, dedicated CATx cable and connectors. RDL's Format-A/Dante interface modules convert between Ethernet and Format-A, making more than 60 Format-A Decora-style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

Network to Mic/Line Interface



Adapts Standard Audio Amplifiers to a Dante Network

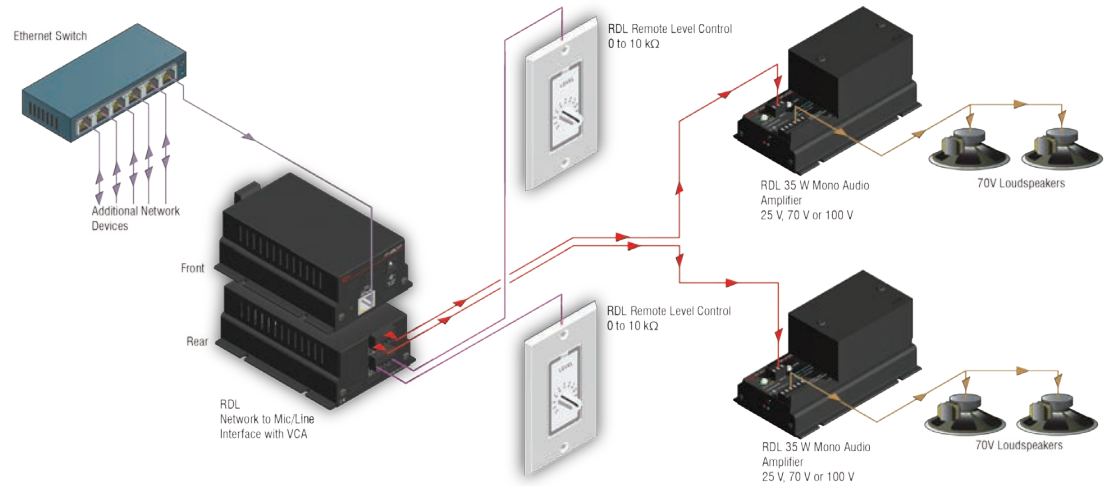


FP-NML2 Features

- 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 are Inactive
- 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

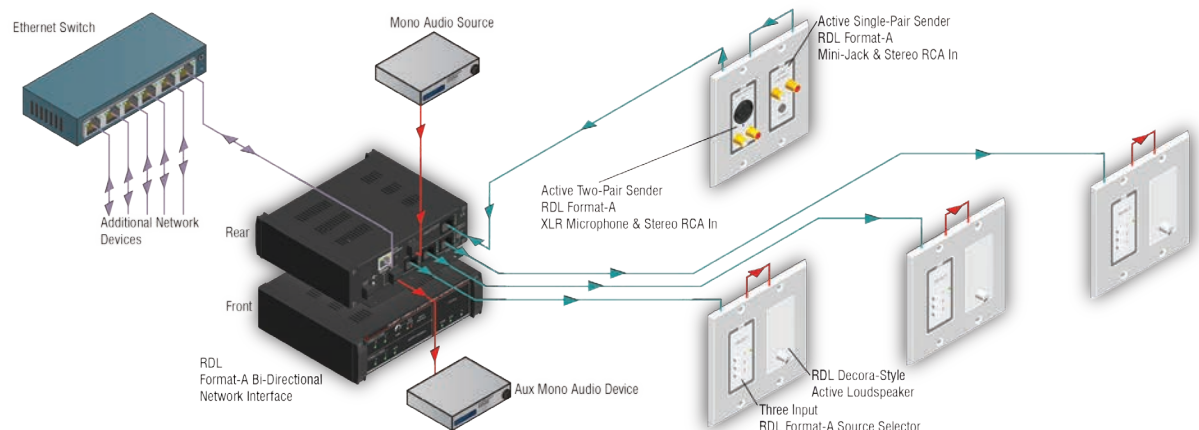


FP-NML2V Features

- 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 FP-NML2VP)
- Equipped for Rack Mounting or Surface Mounting

Format-A Bi-Directional Network Interface

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



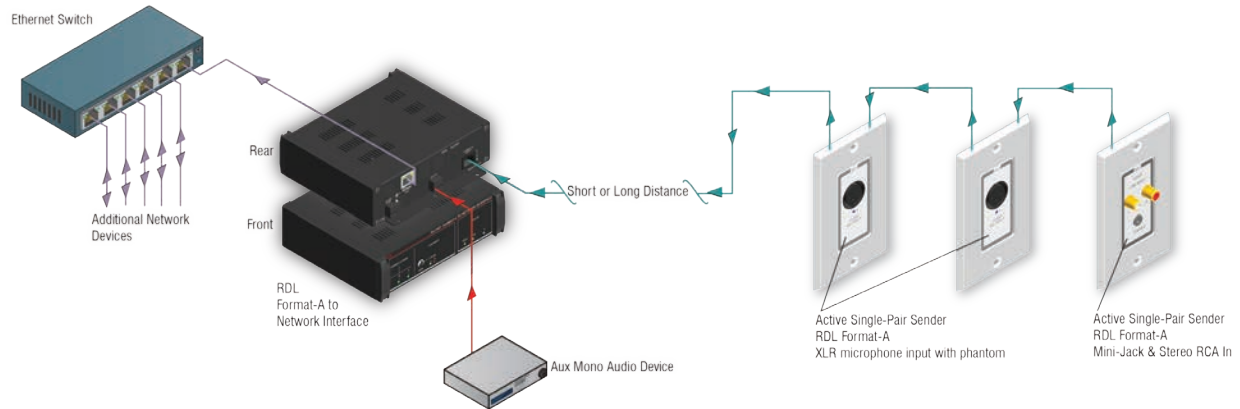
RU-BNF Features

- 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



Format-A to Network Interface

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

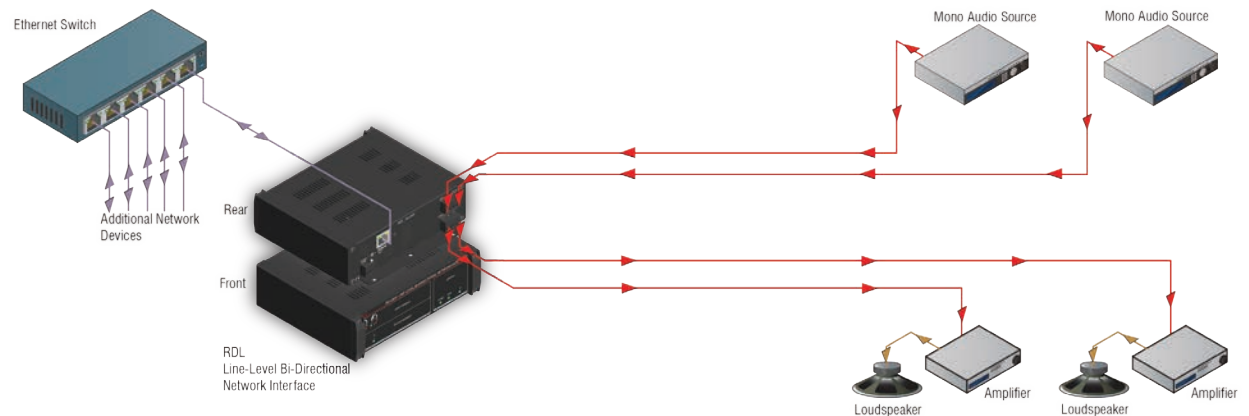


RU-FN Features

- 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
- 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

Line-Level Bi-Directional Network Interface

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

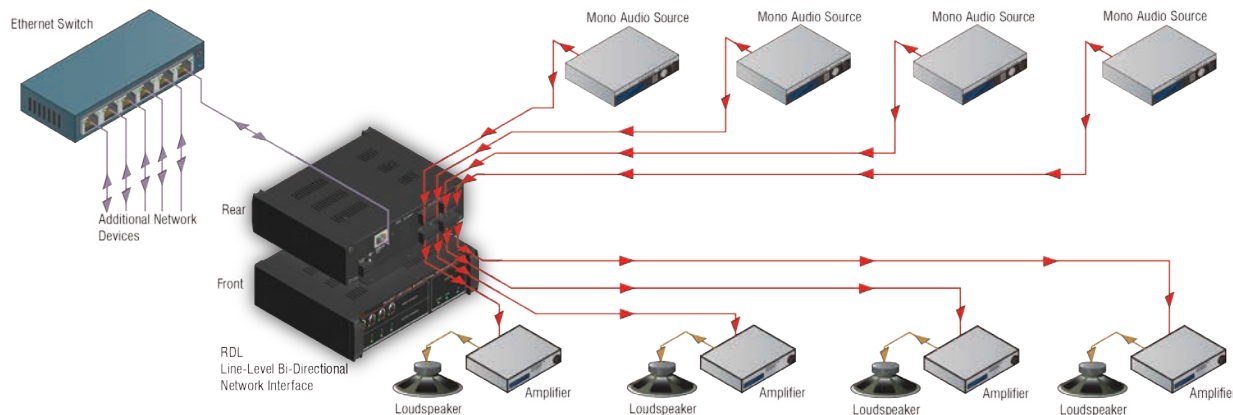


RU-LB2 Features

- Converts Standard Line-Level Audio Sources to Dante Network Channels
- Line-Level Inputs Accept Unbalanced -10 dBV or Balanced +4 dBV 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
- 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
- LED Indicators Show Network Sync Status
- Normal or Hot-Standby Operation from PoE (Model RU-LB2P)
- Equipped for Rack Mounting or Surface Mounting

Line-Level Bi-Directional Network Interface

Converts 4 Line-Level Audio Sources to Dante and 4 Dante Sources to Line Level

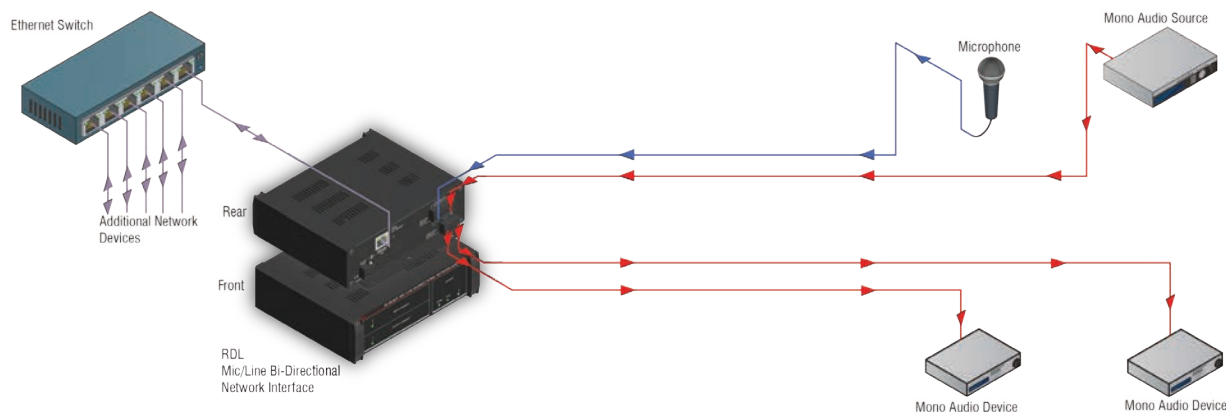


RU-LB4 Features

- 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
- LED Indicators Show Network Sync Status
- Normal or Hot-Standby Operation from PoE (Model RU-LB4P)
- 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

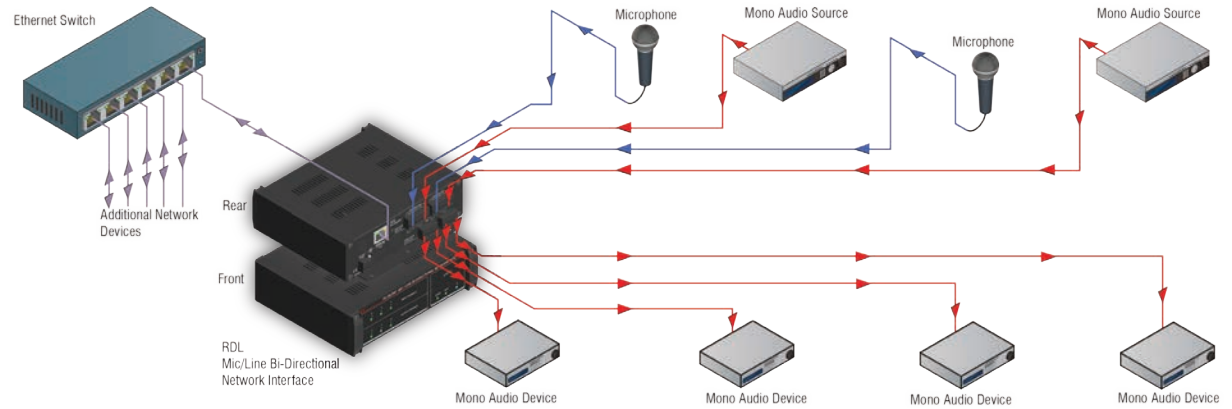


RU-MLB2 Features

- 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
- 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

Mic/Line Bi-Directional Network Interface

Converts 4 Mic or Line Audio Sources to Dante and 4 Dante Channels to Line Level

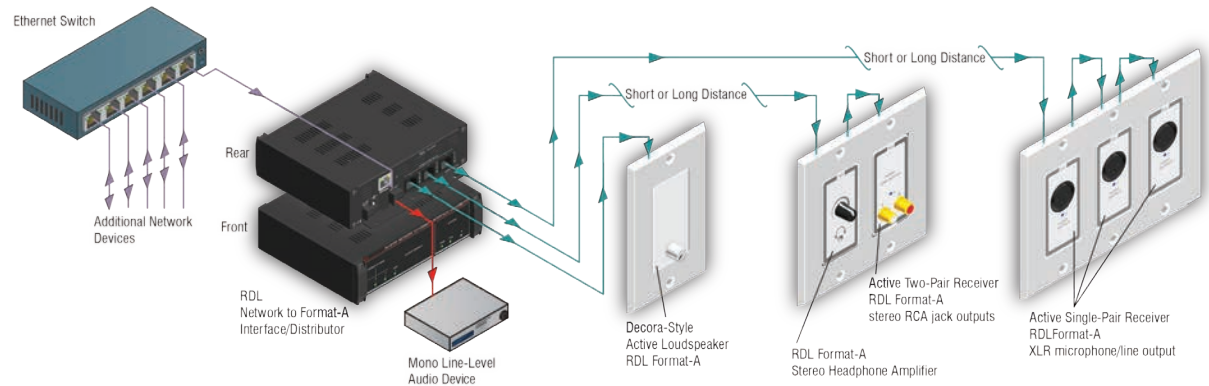


RU-MLB4 Features

- 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

Network to Format-A Interface/Distributor

Converts 4 Dante Network Audio Channels to RDL Format-A and Aux

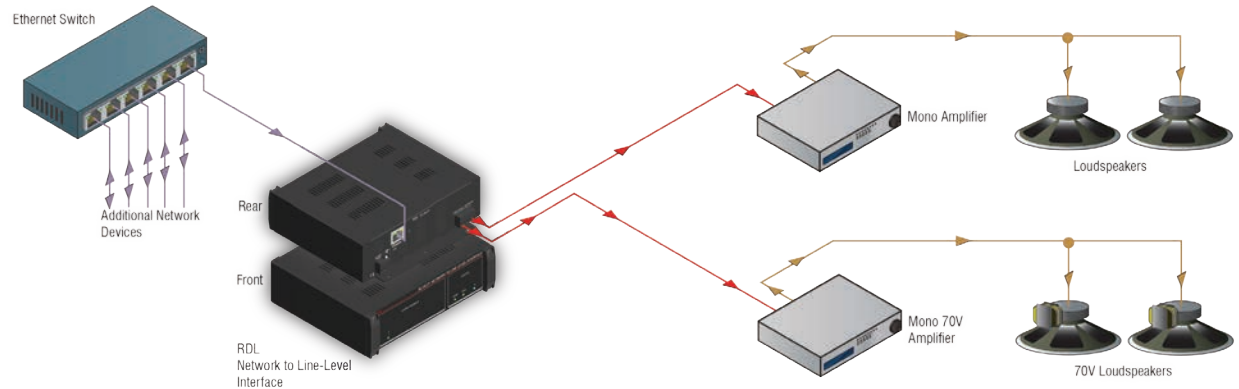


RU-NFD Features

- Converts Four Dante Network Audio Signals 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

Converts 2 Dante Network Audio Channels to Professional Line Level

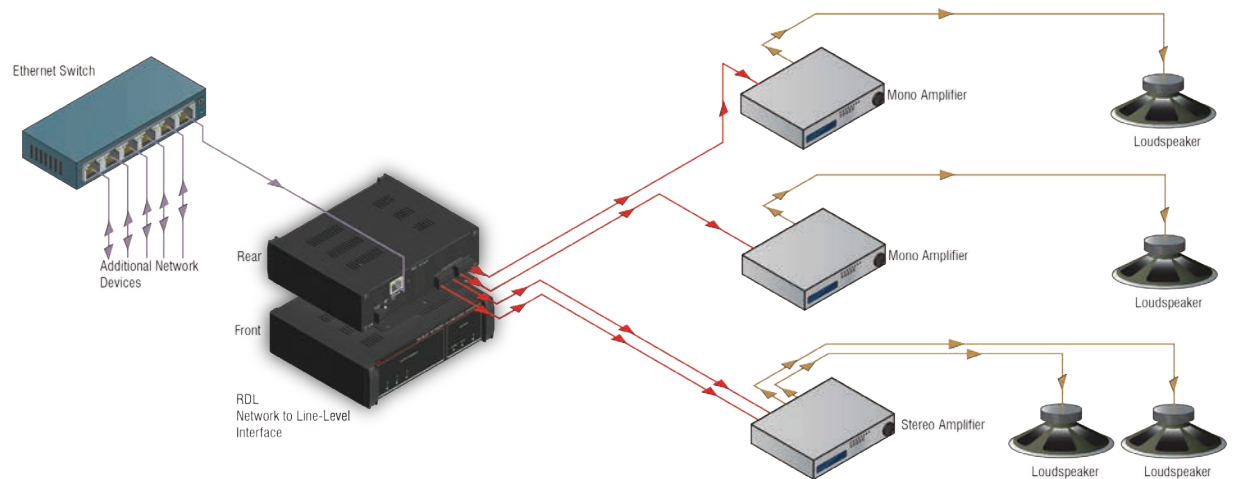


RU-NL2 Features

- 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
- 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

Network to Line Level Interface

Converts 4 Dante Network Audio Channels to Professional Line Level









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
- 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)		Outputs Only (Unidirectional)									
FORMAT-A and Aux Input		FORMAT-A and Aux Output		2 Mic or Line Outputs		2 Mic or Line Outputs		2 Line-Level Outputs		4 Line-Level Outputs	
		3 Distributed FORMAT-A Outputs		VCAs For Remote Level Control		Fixed Output Level		Fixed Output Level		Fixed Output Level	
No POE	POE	No POE	POE	No POE	POE	No POE	POE	No POE	POE	No POE	POE
RU-FN	RU-FNP	RU-NFD	RU-NFDP	FP-NML2V	FP-NML2VP	FP-NML2	FP-NML2P	RU-NL2	RU-NL2P	RU-NL4	RU-NL4P
											
											

Inputs and Outputs (Bidirectional)									
FORMAT-A and Aux Input		2 Line-Level Inputs		4 Line-Level Inputs		2 Switchable Mic or Line Inputs		4 Switchable Mic or Line Inputs	
3 Distributed FORMAT-A Outputs		2 Line-Level Outputs		4 Line-Level Outputs		2 Line-Level Outputs		4 Line-Level Outputs	
No POE	POE	No POE	POE	No POE	POE	No POE	POE	No POE	POE
RU-BNF	RU-BNFP	RU-LB2	RU-LB2P	RU-LB4	RU-LB4P	RU-MLB2	RU-MLB2P	RU-MLB4	RU-MLB4P
									
									

For Up-to-Date Information on RDL's Dante-Enabled Products, Please Visit rdlnet.com.