

## Model AV-NL2 Network to Audio Interface

- Converts Two Dante Network Audio Signals to Balanced Analog
- Selectable Dante Sample Rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
- Each Output Switch-Selectable for Mic or Line Level
- Normal (-20 dBFS) Line-Level Output is +4 dBu with 20 dB Headroom
- Microphone Output Level is Attenuated 50 dB
- Each Output is Protected Against Phantom Voltage up to 48 Vdc
- Special Software Not Required for Module Setup
- Exceptional Low-Noise and Low-Distortion Performance
- High Resolution 24 Bit Digital to Analog Conversion
- Legendary RDL Analog Filtering Enhances Superb Audio Performance
- LED Indicator for Valid Power and Network Sync
- Operation from PoE Power (Class 0, IEEE 802.3af) or external 24 Vdc
- Mounts on a Microphone Stand using an RDL SF-MSM1



AV-PAK products are heavy duty modules intended for rugged field use. Functions include interface, isolation, ground-lift and signal dividing/combining and amplification. AV-PAKs are engineered to provide higher performance and better shielding than other industry products. Standard connector types are provided for direct connection and operation by end users. The heavy duty extruded aluminum and steel chassis are finished in a high quality powder coat. The heavy chassis and dark color style make AV-PAKs ideal for both stage use and permanent installation. AV-PAK modules are designed and manufactured in the U.S.A.

**APPLICATION:** The AV-NL2 is a line-level interface that converts two Dante network audio channels to two balanced audio outputs on XLR connectors. Each channel provides +4 dBu balanced for a network digital audio level of -20 dBFS. Each output is equipped with a selector to set the output to line level or attenuate the output by 50 dB to mic level. Special software is not required to configure the module. The AV-NL2 is a professional grade product for studio quality fidelity and low noise performance.

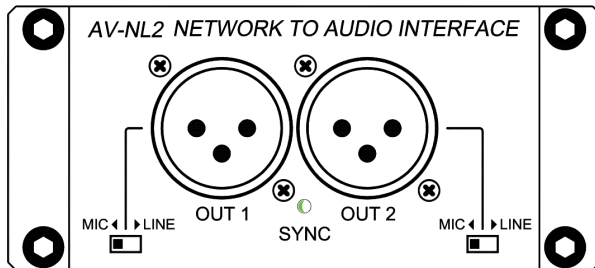
The AV-NL2 may be powered from an external 24 Vdc power supply, available separately. The AV-NL2 is equipped to operate from a PoE enabled network switch. The AV-NL2 will reserve power from the switch even while being powered from an external 24 Vdc supply. If PoE power and an external 24 Vdc supply are both feeding an AV-NL2, the unit will run from the external supply and will seamlessly switch over to PoE power upon loss of the external supply. Valid power and synchronization to the Dante network is indicated by a green LED visible from the front of the unit.

The AV-NL2 is constructed in a durable, professional all-metal enclosure suitable for use on stage or in studio, or mounted to any flat surface. For fixed installations, mounting brackets are included. The chassis is designed to protect the front panel slide switches from accidental damage. This full-featured AV-PAK product is engineered and manufactured in the U.S.A for continuous duty in demanding installations.

## Model AV-NL2 Network to Audio Interface

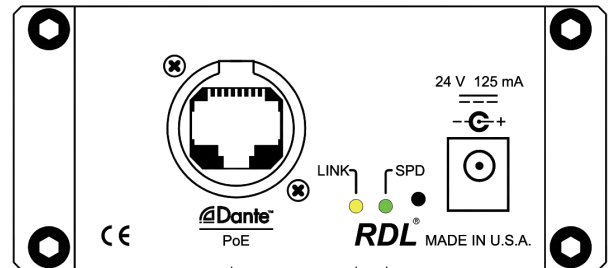
## Installation/Operation

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



SET SWITCH FOR  
MIC OR LINE-LEVEL OUTPUT

SYNC INDICATES VALID POE POWER AND  
SYNCHRONIZATION TO A MASTER CLOCK.  
THE MASTER CLOCK MAY ORIGINATE IN  
THIS MODULE OR OTHER DANTE DEVICE  
ON THE NETWORK. (GREEN)

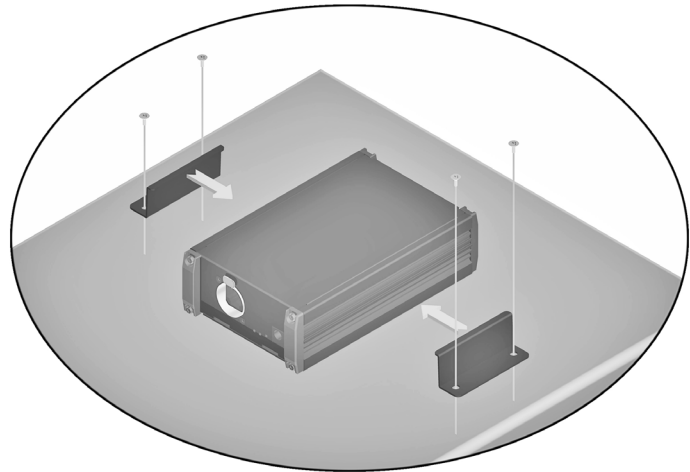


100 Mbps LED (Green)  
-Must be illuminated-

Data Activity LED  
(Yellow)

DANTE NETWORK  
CONNECTION

- 1) Place the two included mounting brackets on either side of the unit as shown.
- 2) Secure the brackets to the mounting surface with four user provided screws.



### TYPICAL PERFORMANCE

Network Connector:	RJ45 Neutrik® etherCON®
Digital Audio Ethernet Protocol:	Dante
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:	-20 dBFS = +4 dBu
Reference Level:	0 dBFS = +24 dBu
Outputs (2):	XLR (male)
Output Level (operating):	+4 dBu nominal LINE level balanced; -45 dBu nominal MIC level (into 150 Ω)
Output Level (maximum):	+24 dBu LINE level
Output Impedance:	< 100 Ω balanced
Selector per output:	Mic/Line
Frequency Response:	20 Hz to 20 kHz (± 0.5 dB)
THD+N:	< 0.1% (20 Hz to 20 kHz, +4 dBu/-20 dBFS); 0.015% at 1 kHz (typ)
Noise:	< -75 dB (below +4 dBu); < -95 (below +24 dBu)

Crosstalk:	Below Noise Floor (1 kHz, output to output); < -60 d5 dB (20 kHz)
Headroom above +4 dBu/-20 dBFS:	20 dB
Indicators (3):	Ethernet Link and Speed (2, rear panel); Sync (front panel)
Ambient Operating Environment:	0° C to 50° C
Power Requirement:	PoE Class 0, IEEE 802.3af
Specification Conditions:	Gain/Level: ± 1 dB
Dimensions:	4.23" (10.74 cm) W; 1.68" (4.27 cm) H; 5.97" (15.16 cm) D
Package Type:	Cardboard Box
Package Dimensions:	7 x 4.375 x 2.25 in.
Shipping Weight:	1.39 lbs.
WEEE weight:	1.17 lbs.
Tariff code:	8517.18.0050

### Radio Design Labs Technical Support Centers

U.S.A. (800) 933-1780, (928) 778-3554; Fax: (928) 778-3506  
Europe [NH Amsterdam] (+31) 20-6238 983; Fax: (+31) 20-6225-287