Overview

The Audio Network Interface shall convert 4 analog audio channels into independent digital audio input channels on a Dante™ network. Microphone, auxiliary, and line-level devices are supported, with adjustable gain and +48V phantom power for each channel. In networked conferencing systems, the Audio Network Interface shall provide a simple way to connect analog equipment, such as wired or wireless microphones, onto the audio network. Available in XLR and block connector versions, each box uses a single network cable to receive audio and power through Power over Ethernet (PoE). The web application shall control built-in digital signal processing, including channel settings, parametric equalization, and audio summing from any computer connected to the same network. The block connector model shall provide logic connections (switch and mute) to convert analog logic signals to Ethernet command strings.

Model Variations

- **ANI4IN-XLR:** Four XLR inputs (balanced audio only)
- **ANI4IN-BLOCK:** Four 6-pin block connector inputs (balanced audio and logic connections)

Two mounting solutions are available for installing the Audio Network Interface:

- CRT1 | **19" Rack Tray (optional accessory):** Supports up to 3 devices; mountable in a rack or under a table
- 53A27742 | **Single-unit Mounting Tray (included accessory):** Supports a single device for mounting under a table

Specifications

Inputs

ANI4IN-XLR	(4) XLR connector
ANI4IN-BLOCK	(4) 6-pin block connector

Phantom Power
Selectable per channel

+48 V

Logic Connections (Block connectors only)
Sent as Ethernet command strings

LED, Switch

Polarity

Non-inverting, any input to any output

Output

(1) RJ45

Power Requirements

Power over Ethernet (PoE), Class 0

Power Consumption

10W, maximum

Weight

672 g (1.5 lbs)

Dimensions
H x W x D

4 x 14 x 12.8 cm (1.6 x 5.5 x 5.0 in.)

Control Application

HTML5 Browser-based

Operating Temperature Range

–6.7°C (20°F) to 40°C (104°F)

Storage Temperature Range

–29°C (-20°F) to 74°C (165°F)

Networking

Cable Requirements

Cat 5e or higher (shielded cable recommended)

Audio

Frequency Response

20 to 20,000 Hz

Dante Digital Output

Channel Count	4
Sampling Rate	48 kHz
Bit Depth	24

Latency
Does not include Dante latency

0.35 ms

Analog Gain Range
Adjustable in 3 dB steps

51 dB

Dynamic Range (Analog-to-Dante)
20 Hz to 20 kHz, A-weighted, typical

113 dB

Equivalent Input Noise
20 Hz to 20 kHz, A-weighted, input terminated with 150Ω

Analog Gain Setting= +0 dB	-93 dBV
Analog Gain Setting= +27 dB	-119 dBV
Analog Gain Setting= +51 dB	-130 dBV

Total Harmonic Distortion
@ 1 kHz, 0 dBV Input, 0 dB analog gain

<0.05%

Common Mode Rejection Ratio
150Ω balanced source @ 1 kHz

>70 dB

Impedance

5 kΩ

Input Configuration

Active Balanced

Input Clipping Level

Analog Gain Setting= +0 dB	+20 dBV
Analog Gain Setting= +27 dB	-7 dBV
Analog Gain Setting= +51 dB	-31 dBV

Built-in Digital Signal Processing

Per Channel	Equalizer (4-band Parametric), Mute, Invert Polarity, Gain (140 dB range)
System	Audio Summing

Dimensions

40.00 mm
(1.575 in.)

140.00 mm
(5.512 in.)

35.00 mm
(1.378 in.)

5.0 mm
(0.197 in.)

128.00 mm
(5.039 in.)

58.00 mm
(2.283 in.)

110.40 mm
(4.346 in.)