DN4 & DN43

ONRAMP FOR DANTE | AES67

OVERVIEW

The Audix DN4 and DN43 on ramp for Dante | AES67 interfaces are at the heart of an integrated microphone system that is the fast, trouble-free way to stream Audix audio performance through Ethernet networks. High-quality audio and all microphone functions — including on-off contact closure and LED status indicators — are available through a single CAT5 - CAT7 cable with RJ45 connections at both interface and microphone. This simple configuration eliminates wiring errors, accelerates installation, and reduces cost. And all Audix RJ45-equipped analog microphone gain structures are optimized for their intended use, providing quality audio at the DSP. The result is true plug-and-play installation.

MODEL VARIATIONS

- **DN4** - Four ports for Audix RJ45-equipped single-element analog mics
- **DN43** - One mic port for the Audix M3 tri-element analog mic and one port for Audix RJ45-equipped single-element analog mics
- **M3WDK** - System kit that includes DN43 and M3W (white) tri-element hanging mic
- **M3GDK** - System kit that includes DN43 and M3G (gray) tri-element hanging mic

DANTE FEATURES

- Supports AES67 audio streams
- Dante Domain Manager (DDM) ready
- Dynamic or static IP address
- Evaluated to the requirement of UL2043 and is suitable for use in above-ceiling applications

AUDIO FEATURES

- High-fidelity 24-bit, 48kHz audio
- Balanced audio inputs with RFI filtering
- 48V phantom power output
- Each channel has selectable pre-amp gain, as well as low- and high-pass filters
- All channels controlled independently
- Flash memory prevents loss of settings in the event of power loss
- Compatible with the M3 tri-element microphone (DN43 only), the flush-mount, steerable M70 ceiling microphone, M55W ceiling microphone, and the M45 Shortgun ceiling microphone

APPLICATIONS

- Meeting rooms
- Convention centers
- Educational facilities
- Houses of worship

POWER FEATURES

- PoE from any IEEE 802.3af compliant equipment
- Alternatively, use external 48VDC power supply

CONNECTIVITY

- Two 5V logic outputs per port, with source/sink capability for LEDs that are controlled by network-connected DSPs
- One logic input per single-element microphone port for buttons.

SPECIFICATIONS

Mic Input	Balanced, RFI filtered
Mic Input Connector	Shielded 8P8C, RJ45
Phantom Power	48VDC, 14 mA / port (short circuit protected)
Max Input (0dB gain)	-14 dBu, 155 mV
Input Impedance (balanced)	1.15 kΩ
Frequency Response	15Hz - 22kHz, +0, -3 dB
THD+N	(1 kHz, 0dB gain) 0.003 %
CMRR (typ.)	50 dB
EIN (typ., unweighted)	-120 dBu
SNR (typ., unweighted)	-96 dB
Channel Crosstalk (1 kHz)	< -80 dB
Dante™ / AES67 Channels	4
Dante™ Chipset	UXT-01-004
Sample Rate	48 kHz
Word Width	24-bit
Logic I/O	
Logic Inputs Per Port	1 per single-element microphone port
Logic Outputs Per Port	2
Low-pass Options	Off, 5 kHz, 7 kHz, 10 kHz
High-pass Options	15 Hz, 238 Hz
Gain Options	0 dB, +8 dB, +12 dB, +15 dB, +18 dB, +24 dB, 30 dB, +36 dB
Power	
External DC Jack	+48VDC, 125 mA
PoE (IEEE 802.3af)	CLASS 2 (3.84 - 6.49 W)
Height	28 mm (1.11 in)
Width	202 mm (7.95 in)
Depth	125 mm (4.92 in)
Weight	DN4 0.64kg (1.41 lbs) DN43 0.63kg (1.31lbs)
Environment	Temperature 10-50 °C (50-122 °F)
Compliance	FCC Part NN (USA) CE marked (Europe) RoHS WEEE Directive

For service and warranty information, visit audixusa.com

ARCHITECT AND ENGINEERING SPECIFICATIONS

Installations using only Audix Dante | AES67 compatible single-element microphones The Dante interface unit shall provide four analog microphone input ports with RJ45 connectors. High- and low-pass filtering and gain adjustments of 0 dB, +8 dB, +12 dB, +15 dB, +18 dB, +24 dB, +30 dB, and +36 dB shall be selectable for each input. The Dante interface shall have one logic input per microphone port and two logic outputs per microphone port. The logic, gain, and filter controls shall be accessible with a network API. The internal analog-to-digital signal conversion shall be performed at 24-bit resolution with a sampling frequency of 48kHz. The Dante interface unit shall receive power over the Ethernet cable from an IEEE 802.3af compliant device or from an external +48VDC supply. The Dante interface shall be the Audix DN4.

Installations using an Audix Dante | AES67 compatible tri-element microphone The Dante interface unit shall provide one tri-element analog microphone input port and one single-element analog microphone input port, both with RJ45 connectors. High-pass and low-pass filtering and gain adjustments of 0 dB, +8 dB, +12 dB, +15 dB, +18 dB, +24 dB, +30 dB, and +36 dB shall be selectable for each input. The Dante interface shall have one logic input and two logic outputs per single-element microphone port. The logic, gain, and filter controls shall be accessed with a network API. The internal analog-to-digital signal conversion shall be performed at 24-bit resolution with a sampling frequency of 48kHz. The Dante interface unit shall receive power over the Ethernet cable from an IEEE 802.3af compliant device or from an external +48VDC supply. The Dante interface shall be the Audix DN43.

SUPPLIED ACCESSORIES

- DN4, DN43, and M3DK include mounting brackets (pair MNTDN), with attachment screws
- M3DK also includes 3 ft. plenum-rated CAT6 cable

OPTIONAL ACCESSORIES

- 48VDC power supply (PSDN4C)

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