AXI 44 AT

4 INPUT, 4 OUTPUT AUDIO EXPANSION INTERFACE WITH DANTE

▸ **Four mic/line inputs for transmitting audio to a Dante™ network**

▸ **Four line level outputs receive audio from a Dante network**

▸ **Dante audio networking provides a wide range of expansion capabilities**

▸ **Studio grade 24-bit analog-to-digital and digital-to-analog converters with selectable sampling rates up to 96 kHz**

▸ **Input select, gain, and phantom power controls located on front panel and configurable through DSP Configurator Software**

▸ **Power over Ethernet allows the AXI 44 AT to receive power over a single Ethernet cable, eliminating the need for a local power supply**

▸ **Highly reliable, energy-efficient external universal power supply optional, part #70-775-01**

▸ **1U, quarter rack width metal enclosure**

The Extron AXI 44 AT is a quarter rack width audio interface for integrating four mic/line sources onto a Dante™-enabled audio system. It features four mic or line inputs with switchable 48 volt phantom power. Input select, gain, and phantom power settings are controllable from the front panel, via DSP Configurator Software, or by SIS command.

Extron Electronics
INTERFACING, SWITCHING AND CONTROL

DESCRIPTION

The Extron **AXI 44 AT** is a quarter rack width audio interface for integrating four mic/line sources onto a Dante™-enabled audio system. It features four mic or line inputs and switchable 48 volt phantom power. Input select, gain, and phantom power settings are controllable from the front panel, via DSP Configurator Software, or by SIS command. The AXI 44 AT also features four line level outputs for routing any four Dante channels from the network to the audio system. The AXI 44 AT interfaces with any Dante-equipped audio product, such as an Extron DMP 128 Plus AT audio DSP processor, over a standard local area network, and can be powered via PoE. This allows a single network cable connection for bidirectional audio and power from a central equipment rack.

KEY FEATURES

▶ **Four mic/line inputs for transmitting audio to a Dante™ network** – Each input accepts a balanced or unbalanced mic/line level signal on a captive screw connector and includes selectable 48 volt phantom power.

▶ **Four line level outputs receive audio from a Dante network** – Four channels of high quality digital audio can be routed from local or remote systems via Dante and converted to line level analog audio, provided as balanced or unbalanced signals on a captive screw connector.

▶ **Dante audio networking provides a wide range of expansion capabilities** – Dante-equipped audio products, including the AXI 44 AT, provide scalability for creating larger audio systems over a local area network using standard Internet protocols.

▶ **Studio grade 24-bit analog-to-digital and digital-to-analog converters with selectable sampling rates up to 96 kHz** – Professional converters fully preserve the integrity of the original audio signal, with selectable sampling rates via Dante Controller.

▶ **Input select, gain, and phantom power controls located on front panel and configurable through DSP Configurator Software** – Settings can be modified from the front panel, DSP Configurator Software, or SIS commands.

▶ **Power over Ethernet allows the AXI 44 AT to receive power over a single Ethernet cable, eliminating the need for a local power supply**

▶ **Highly reliable, energy-efficient external universal power supply optional, part #70-775-01**

▶ **1U, quarter rack width metal enclosure** – Compact, durable enclosure can be discreetly installed under a desk, in a lectern, in millwork, or in an AV equipment rack.

SPECIFICATIONS

AUDIO	
Gain	Unbalanced output: -6 dB, balanced output: 0 dB
Frequency response	20 Hz to 20 kHz, ±0.3 dB
THD + Noise	<0.01% @ 1 kHz at maximum output level
S/N	
Analog In to Digital Out	110 dB, 20 Hz to 20 kHz at maximum input (unweighted)
Digital In to Analog Out	115 dB, 20 Hz to 20 kHz at maximum output (unweighted)
Crosstalk	<-90 dB @ 1 kHz, fully loaded
CMRR	>65 dB @ 1 kHz
Output attenuation	-100 dB to 0 dB (in 1 dB steps)
AUDIO INPUT	
Number/signal type	4 mono mic/line, balanced/unbalanced
Connectors	(2) 3.5 mm captive screw connectors, 6-pole
Impedance	>10k ohms, balanced/unbalanced
Nominal level	+4 dBu when level is set to 0 dB gain, adjustable from -60 dBu to +4 dBu
Maximum level	>+21 dBu (at rated THD + N) when input gain is set to 0 dB
Equivalent input noise	<-120 dBV (1 µVrms) at 40 dB gain
Input gain adjustment	0 dB to +42 dB, 3 dB steps, adjustable per input
Mic phantom power	+48 VDC ±10%, can be switched on or off per input
NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu; All nominal levels are at ±10%	
AUDIO OUTPUT	
Number/signal type	4 mono (or 2 stereo), balanced/unbalanced
Connectors	(2) 3.5 mm captive screw connectors, 6-pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Nominal level	-10 dBV (316 mV) or +4 dBu (1.23 V)
Maximum level (Hi-Z)	>+21 dBu balanced or >+15 dBu unbalanced
AT PORTS — AUDIO TRANSPORT	
Transmission	Dante/AES 67, software selectable
Connectors	1 RJ-45 connector to Dante interface
Inputs	4 channels Rx
Outputs	4 channels Tx
Sampling rate	Selectable in kHz: 44.1, 48, 88.2, 96
Latency	Deterministic, based on user selection: 1.0 ms (default), 2.0 ms, 5.0 ms
GENERAL	
Power input requirements	12 VDC or Power over Ethernet (PoE 802.3at)
Power supply (optional)	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts
Power consumption	
Device	9.7 watts
Device and power supply	12.4 watts
Cooling	Convection, vents
Rack mount	Yes, with optional 1U high rack shelf
Furniture mount	Yes, with optional under-desk mounting kit
Enclosure type	Metal
Enclosure dimensions	1.75" H x 4.3" W x 6.0" D (1U high, quarter rack wide) (4.5 cm H x 10.9 cm W x 15.2 cm D)

NOTE: All nominal levels are at ±10%

NOTE: Specifications are subject to change without notice

Model	Version Description	Part number
AXI 44 AT	4 In, 4 Out Expansion Interface	60-1628-01

For complete specifications, please go to www.extron.com
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