



NEX:T audio

AUDIO NETWORK // AoIP EDGE DEVICES

INTRODUCING THE NEX:T AXIO AUDIO DEVICES

NEX:T axio is a high-performance AoIP audio device designed for premium-quality audio conversion, routing, and monitoring in broadcast, live, and studio environments. Available in 8, 16, and 32 channel configurations, NEX:T axio combines world-class microphone preamps, ultra-low latency signal paths, and seamless integration with AES67/Dante, MADI, and AES3. Each channel features front-panel XLR connectors with individual OLED displays for labeling and status indication. GPIO connectivity and expansion options ensure maximum flexibility for any application, from compact OB trucks to large-scale production infrastructures.

ANALOG-AUDIO



Microphone / Line Inputs

Connector type	XLR 3F (AES14 pinout) Balanced, floating (TrueMatch II)
Resolution	32 bit
Sampling frequency	44.1 .. 192 kHz
Latency	60 μ s @ 96 kHz
Maximum input (differential mode)	+30 dBu (phantom power off)
Maximum input (common mode)	\pm 100 V
Input impedance	10 k Ω (50 Hz .. 15 kHz), > 10 M Ω @ 1 kHz (common mode, phantom off), > 100 k Ω (phantom on)
Phantom power	P48 (48 V / 10 mA), silent on/off
Equivalent input noise	-128 dBu (150 Ω source, 20 .. 20 kHz), -158 dBFS (0 Ω source, A-weighted)
Dynamic range	164 dB (0 Ω source, A-weighted)
THD+N	0.0003 % @ +24 dBu (150 Ω source, 1 kHz, AES17)
Frequency response	\pm 0.1 dB (20 Hz .. 20 kHz @ FS = 48 kHz), extended to 40 kHz @ FS = 96 kHz
Common mode rejection w/ Phantom off	> 155 dB @ 50 Hz, > 130 dB @ 3.15 kHz
Common mode rejection w/ Phantom on	> 135 dB @ 50 Hz, > 110 dB @ 3.15 kHz
Crosstalk	< -150 dB adjacent channels (1/3 octave, 20 Hz .. 20 kHz)

Analog outputs

Connector type	XLR 3M (AES14 pinout) Balanced, floating
Resolution	32 bit
Sampling frequency	44.1 .. 192 kHz
Latency	60 μ s @ 96 kHz
Output level range	0 .. +24 dBu @ 0 dBFS
Output level step	1 dB, \pm 0.1 dB accuracy
Maximum output level	+24 dBu (600 Ω load)
Maximum common mode voltage	\pm 100 V
Output impedance	< 1 Ω (50 Hz .. 15 kHz differential mode), > 10 M Ω @ 1 kHz (common mode)
Dynamic range	> 132 dB (600 Ω load, A-weighted)
THD+N	0.0003 % @ +24 dBu (600 Ω load, 1 kHz, AES17), 0.001 % @ +4 dBu
Frequency response	-0.1 dB (20 Hz .. 20 kHz @ FS = 48 kHz), extended to 40 kHz @ FS = 96 kHz
Crosstalk	< -125 dB adjacent channels (1/3 octave, 20 Hz .. 20 kHz)

DIGITAL AUDIO INTERFACES

AES3 I/O	See variant table
MADI (optical or coax)	Standard
AES67 / Dante dual redundant	Primary & secondary
Sample rates	44.1 / 48 / 96 / 192 kHz
Bit depth	24 / 32 bit

HARDWARE

Power supply	100–240 V AC, 50/60 Hz, IEC inlet
Cooling	Low-noise fan
Rear-panel connectors	AES3, MADI, AoIP, GPIO, expansion slots (as per variant)

VARIANTS OVERVIEW

Model	Analog I/O	AES3 I/O	Expansion Slots	Height	Width	Notes
NEX:T axio 8	8 Mic/Line In + 4 Line Out	2x AES3	–	1 RU	19"	Compact form factor
NEX:T axio 16	16 Mic/Line In + 8 Line Out	4x AES3	1	2 RU	19"	Compact form factor
NEX:T axio 32	32 Mic/Line In + 16 Line Out	8x AES3	2	4 RU	19"	Compact form factor

CONTROL & GPIO

- Dedicated network control port (RJ45)
- 10x GPIO (D-Sub 25, rear)
- OLED channel displays for labeling, metering, and status
- Front-panel navigation and configuration keys
- Web-based GUI for remote setup, control and monitoring

OPTIONS & FEATURES

- 4split functionality per input for fully isolated gain and processing paths
- Native Stagenet GUI and control – no additional software required
- Interoperable with third-party control protocols
- Modular expansion for additional formats (future-proof design)

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