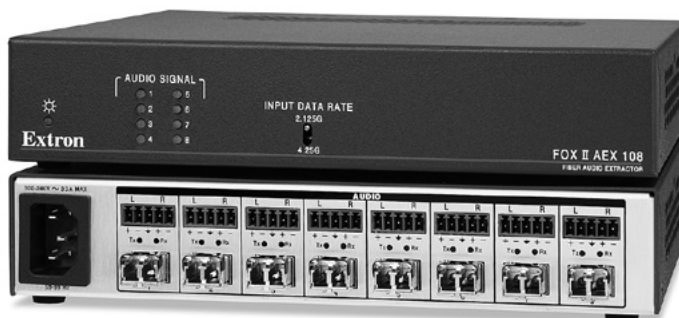


FOX II AEX 108

EIGHT PORT FIBER OPTIC AUDIO EXTRACTOR



The FOX II AEX 108 is an eight-port, fiber optic audio extractor for independent processing and routing of audio signals in a fiber optic AV distribution system. Each port accepts signals from a FOX or FOX II Series transmitter to extract the two-channel audio signal, re-transmitting the original signal to the receiver. Available in multimode and singlemode models, the FOX II AEX 108 is ideal for use in FOX Matrix system applications that require extraction of audio signals for local processing and independent distribution.

- ▶ Provides local audio outputs from up to eight FOX or FOX II Series fiber optic signals, extracting analog stereo audio for independent processing and routing
- ▶ Extracts audio from the eight ports simultaneously
- ▶ Balanced or unbalanced analog stereo audio output for integration with audio processing and distribution equipment
- ▶ Output reclocking reshapes and restores the timing of a digital signal
- ▶ Buffered input loop-throughs restore optical budget to maximize distance capabilities
- ▶ Available as 850 nm multimode and 1310 nm singlemode models
- ▶ Real-time status LED indicators for troubleshooting and monitoring
- ▶ Compatible with Extron FOX Matrix Switchers for signal distribution systems up to 1000x1000 and larger
- ▶ Compatible with Extron FOX Series distribution amplifiers
- ▶ Compatible with Extron FOX and FOX II Series DisplayPort, HDMI, DVI, VGA, VGA/YUV, and AV transmitters and receivers



Extron Electronics
INTERFACING, SWITCHING AND CONTROL

DESCRIPTION

The Extron **FOX II AEX 108** Eight Port Fiber Optic Audio Extractor enables independent processing and routing of audio signals in a fiber optic AV distribution system. Each input port extracts the two-channel audio signal from a FOX or FOX II Series transmitter to provide a balanced or unbalanced analog stereo output, and re-transmits the original fiber optic signal to the receiver. Output reclocking on the buffered pass-through maintains signal integrity, transmitting the signal at the original power level. Featuring high-speed, all-digital signal transmission of pixel-perfect video, audio, and control signals over fiber optic cabling, the FOX II AEX 108 is compatible with FOX or FOX II Series DisplayPort, HDMI, DVI, VGA, VGA/YUV, and AV extenders.

The FOX II AEX 108 is ideal for use in FOX Matrix system applications that require extraction of audio signals for local independent distribution and processing within an equipment room. It can be used to extract audio signals from a remote AV source via the transmitter before sending the fiber optic signal through a FOX Matrix Switcher. The line-level balanced or unbalanced analog stereo audio is made available to the audio processing and distribution system. Alternatively, the FOX II AEX 108 can extract program audio on the output side of a FOX Matrix Switcher for independent processing through a mixer, DSP, or audio amplifier. In this configuration, it receives an output signal from the matrix switcher, extracts the audio, and transmits the original fiber optic signal to the receiver at a remote display.

FEATURES

- ▶ Provides local audio outputs from up to eight FOX or FOX II Series fiber optic signals, extracting analog stereo audio for independent processing and routing
- ▶ Extracts audio from the eight ports simultaneously
- ▶ Balanced or unbalanced analog stereo audio output for integration with audio processing and distribution equipment
- ▶ Output reclocking reshapes and restores the timing of a digital signal
- ▶ Buffered input loop-throughs restore optical budget to maximize distance capabilities
- ▶ Real-time status LED indicators for troubleshooting and monitoring
- ▶ Compatible with Extron FOX Matrix Switchers for signal distribution systems up to 1000x1000 and larger
- ▶ Rack-mountable 1U, half rack width metal enclosure
- ▶ Multimode and singlemode models available

SPECIFICATIONS

NOTE: These units are class 1 laser products. They meet the safety regulations of IEC-60825, FDA 21 CFR 1040.10, and FDA 21 CFR 1040.11.

OPTICAL FIBER INTERCONNECTION BETWEEN TRANSMITTER OR FIBER MATRIX SWITCHER AND RECEIVER

Number/type	2 fibers per extraction point
Connectors	16 LC connectors
Operating distance	
Singlemode	30 km (18.75 miles) with singlemode (SM) cables with a SM unit
Multimode	300 m (985') with 62.5 µm OM1 multimode (MM) cables with a MM unit 1 km (3280') with 50 µm OM2 multimode (MM) cables with a MM unit 2 km (6561') with 50 µm OM3/OM4 2000 MHz bandwidth laser optimized multimode cable with a MM unit
Nominal peak wavelength	850 nm for MM units, 1310 nm for SM units
Data rate	4.25 Gbps or 2.125 Gbps, selectable
Optical loss budget	
Singlemode	13 dB, maximum
Multimode	7 dB, maximum

AUDIO OUTPUT

Number/signal type	8 balanced/unbalanced stereo, 16 balanced or unbalanced mono
Connectors	(8) 3.5 mm captive screw connectors, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Nominal level	+4 dBu (1.23 Vrms), -10 dBV (316 mVrms)
Maximum level	>+11 dBu, balanced at 1% THD+N
Audio delay	1.5 frames
NOTE:	0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

GENERAL

Power supply	Internal 100 VAC to 240 VAC, 50-60 Hz, 20.0 watts	
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing	
Cooling	Convection, vents on top and side panels	
Mounting		
Rack mount	Yes, with optional rack shelf	
Furniture mount	Yes, with optional under desk mounting kit	
Enclosure type	Metal	
Enclosure dimensions	1.7" H x 8.7" W x 8.5" D (1U high, half rack wide) (4.3 cm H x 22.1 cm W x 21.6 cm D) (Depth excludes connectors.)	
Vibration	ISTA 1A in carton (International Safe Transit Association)	
Regulatory compliance		
Safety	CE, c-UL, FDA Class 1, UL	
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI	
Warranty	3 years parts and labor	
NOTE:	All nominal levels are at ±10%.	
Model	Version Description	Part number
FOX II AEX 108 MM	Audio Extractor - Multimode	60-1459-01
FOX II AEX 108 SM	Audio Extractor - Singlemode	60-1459-02

For complete specifications, please go to www.extron.com
Specifications are subject to change without notice.

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