Specifications

FOX AEX 108

NOTE: Analog audio signals are digitized in a fiber optic transmitter, sent through the fiber cable to the matrix switcher, then the FOX AEX 108, and converted back to analog audio in the FOX AEX 108 or the receiver.

NOTE: The FOX AEX 108 is a class 1 laser products. It meets the safety regulations of IEC-60825.

NOTE: The FOX AEX 108 is not compatible with the Extron FOX 3G HD-SDI extender or the FOX 3G DVC signal converter.

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
Multimode	300 m (984') with 62.5 µm OM1 multimode (MM) cables 1 km (3280') with 50 µm OM2 multimode (MM) cables 2 km (6561') with 50 µm OM3/OM4 2000/4700 MHz bandwidth laser optimized multimode cables

NOTE: Operating distance is approximate. These are typical maximum distances that may vary depending on factors such as fiber type, fiber bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.

Nominal peak wavelength	850 nm for MM, 1310 nm for SM
Data rate	4.25 Gbps or 2.125 Gbps, selectable
Transmission power	
Singlemode	-5 dBm, typical
Multimode	-5 dBm, typical
Maximum receiver sensitivity	
Singlemode	-18 dBm, typical
Multimode	-12 dBm, typical
Optical loss budget	
Singlemode	13 dB, maximum
Multimode	7 dB, maximum

Audio

Gain	
Default	Unbalanced output: –6 dB Balanced output: 0 dB
Frequency response	20 Hz to 20 kHz, ±0.5 dB
THD + Noise	0.10% @ 1 kHz at nominal level
S/N	>80 dB at maximum output (unweighted)
Audio bits per sample	18 bits per channel, 2 channels (L, R)
Sampling rate	48 kHz

Audio input — See the transmitter specifications

Audio output

Number/signal type	8 stereo, balanced/unbalanced or 16 mono, balanced/unbalanced
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
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
Thermal dissipation	47.2 BTU/hr
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 6.0" D (1U high, half rack wide) (4.3 cm H x 22.1 cm W x 15.2 cm D) (Depth excludes connectors.)
Product weight	2.7 lbs (1.2 kg)
Shipping weight	4 lbs (2 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety	CE, c-UL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI
Warranty	3 years parts and labor

NOTE: All nominal levels are at ±10%.

NOTE: Specifications are subject to change without notice.

8.1-070815-D6