

# Specifications

## FOX II 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 II AEX 108, and converted back to analog audio in the FOX II AEX 108 or the receiver.

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

**NOTE:** The FOX II 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 $\mu$ m OM1 multimode (MM) cables
	1 km (3280') with 50 $\mu$ m OM2 multimode (MM) cables
	2 km (6561') with 50 $\mu$ m 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, $\pm 0.5$ 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  $\approx$  2 dBu

## General

Power supply .....	Internal 100 VAC to 240 VAC, 50-60 Hz
Power consumption.....	17.5 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
Thermal dissipation .....	59.6 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 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.)
Product weight .....	2.7 lbs (1.2 kg)
Shipping weight .....	5 lbs (3 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  $\pm 10\%$ .

**NOTE:** Specifications are subject to change without notice.

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