

# Specifications

## FOX DA8 Series

### Optical specifications

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

Number/type	
Input .....	1 singlemode or multimode fiber optic
Output .....	8 singlemode or multimode fiber optic
Connectors .....	8 LC connectors
Operating distance	
Singlemode .....	30 km (18.75 miles) with singlemode (SM) cables with an Extron singlemode Tx/Rx unit
Multimode.....	300 m (985') with 62.5 $\mu$ m multimode (MM) cables with an Extron multimode Tx/Rx unit
	1 km (3280') with 50 $\mu$ m multimode (MM) cables with an Extron multimode Tx/Rx unit
	2 km (6561') with 50 $\mu$ m 2000 MHz bandwidth laser multimode cable with an Extron multimode Tx/Rx unit

**NOTE:** Operating distance is approximate. These are typical distances. The maximum distance may be greater than these typical numbers 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 model, 1310 nm for SM model
Data rate.....	4.25 Gbps
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

### Control/remote

Serial control ports .....	1 RS-232, 3.5 mm captive screw connector, 3 pole (rear panel) 1 RS-232, 2.5 mm mini stereo jack (front panel)
Baud rate and protocol.....	9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configurations .....	Captive screw connector: 1 = Tx, 2 = Rx, 3 = GND Mini stereo jack: tip = Tx, ring = Rx, sleeve = GND
Program control .....	Extron control/configuration program for Windows® Extron Simple Instruction Set (SIS™)

General

Power .....	100 VAC to 240 VAC, 50-60 Hz, 20 watts, internal
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 sides
Mounting	
Rack mount .....	Yes, with optional 1U rack shelf
Furniture mount .....	Yes, with optional under-desk mounting kit or through-desk mounting kit
Enclosure type .....	Metal
Enclosure dimensions .....	1.7" H x 8.7" W x 9.5" D (1U high, half rack wide)
	(4.3 cm H x 22.1 cm W x 24.1 cm D)
	(Depth excludes connectors.)
Product weight.....	2.3 lbs (1 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, FDA Class 1, ICES, VCCI,
Warranty .....	3 years parts and labor

**NOTE:** All nominal levels are at ±10%.

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

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