

Specifications

FOX 3G I/O SM P Series

NOTE: The I/O boards are class 1 laser products. They meet the safety regulations of IEC-60825, FDA 21 CFR 1040.10, and FDA 21 CFR 1040.11.

NOTE: The FOX 3G I/O SM P boards offer immunity to "pathological" signals, including test patterns defined by SMPTE Recommended Practice (RP) 178 and SMPTE RP 198 for SD-SDI, HD-SDI, and 3G-SDI.

NOTE: FOX 3G I/O SM P boards are immune to pathological signals only when used with P model transmitter and receiver units with no other equipment between the transmitter, board, and receiver units.

Optical specifications

Number/type	Fiber optic inputs and outputs I/O board
FOX 3G I/O 88 SM P	8 singlemode (8 Tx and 8 Rx)
FOX 3G I/O 1616 SM P	16 singlemode (16 Tx and 16 Rx)

NOTE: Only one fiber is required to transmit video, audio, and unidirectional data. A second fiber is required to transmit return data for bidirectional control/communication.

Connectors	16 or 32 LC connectors per I/O board
Operating distance	30 km (18.75 miles) with singlemode (SM) cables with an Extron singlemode transmitter/receiver

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	1310 nm for singlemode (SM)
Transmission power	-5 dBm, typical
Maximum receiver sensitivity	-18 dBm, typical
Optical loss budget	13 dB, maximum

Digital video — SDI/HD-SDI/3G-SDI (FOX 320x Series with FOX I/O HD-SDI)

Routing	8 x 8 or 16 x 16
Gain	Unity
Maximum data rate	2.97 Gbps
Auto data rate lock	Yes
Data types	8 or 10 bit
Operation standards	SMPTE 292M, SMPTE 259M, SMPTE 297-2006, SMPTE 424M, ITU-RBT.601, ITU-RBT.1120

Video/audio input or output

Number/signal type	8 or 16 fiber optic signals
Connectors	8 or 16 LC connectors per I/O board

NOTE: Input comes from an Extron fiber optic transmitter, fiber optic distribution amplifier, or fiber optic matrix switcher.

NOTE: Output connects to an Extron fiber optic receiver.

General

Power	Supplied by a FOX Matrix switcher
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Power consumption	
FOX 3G I/O 1616 SM P	32 watts
FOX 3G I/O 88 SM P	16 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
Mounting.....	Mounts within an Extron FOX Matrix 3200, 7200, 14400, or 320x switcher
Enclosure type.....	Metal faceplate
Product weight.....	1.6 lbs (0.7 kg) per board
Shipping weight.....	3 lbs (2 kg) per board
Vibration.....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety.....	CE
Environmental.....	Complies with the appropriate requirements of RoHS, WEEE
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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