

FOX3 Matrix 560x

MODULAR FIBER OPTIC MATRIX SWITCHER
FROM 8X8 TO 560X560



The **FOX3 Matrix 560x** provides high-performance switching of 4K/60 video, audio, USB, control, and 3D Sync over fiber optic cable. Expandable in sizes from 8x8 up to 560x560, this modular matrix switcher also features an integrated IPCP Pro Q xi control processor. Its advanced security standards and Gigabit Ethernet ports ensure compatibility with Extron IPCP Pro control processors and TouchLink® Pro touch panels using a standard network infrastructure.

- ▶ I/O sizes from 8x8 to 560x560
- ▶ Switches 4K/60 video, audio, USB, control, and 3D sync over fiber optic cable
- ▶ Compatible with all Extron FOX3 Series transmitters and receivers
- ▶ Dante® audio network interface, DMP expansion port, and analog audio inputs and outputs
- ▶ RS-232 insertion from the Ethernet control port

DESCRIPTION

The **FOX3 Matrix 560x** features Dante, DMP Expansion, and analog audio I/O ports enable audio embedding and de-embedding. Equipped with many additional integrator-friendly features, such as redundant hot-swappable power supplies and real-time system monitoring, the FOX3 Matrix 560x delivers highly reliable, enterprise-wide switching of fiber optic AV, USB, and control signals for mission-critical environments.

Convenient local and remote system access for configuration, operation, and monitoring is available through the front panel USB configuration port, rear panel RS-232 serial control port, and Ethernet control port. The FOX3 Matrix 560x also provides the insertion and extraction of RS-232 control data from the Ethernet port to the transmitters and receivers. This allows comprehensive control of endpoint devices without needing additional cabling.

A built-in Extron IPCP Pro Q xi high-performance control processor features a dedicated AV LAN port, a standard Ethernet LAN port, and a local USB-C configuration port. The dedicated AV LAN port isolates control of the matrix for added security. It includes advanced security standards and Gigabit Ethernet for compatibility with Extron IPCP Pro control processors and Extron TouchLink® Pro touchpanels using a standard network infrastructure. The standard Ethernet LAN port provides a secure connection to the facility network via a standard RJ-45 connection and is compliant with NIAP/Common criteria as well as JITC network protocols. It will only permit discovery, setup, and firmware updates for Extron devices connected to the AV LAN port. The local USB-C configuration port provides a convenient local connection for configuration.

KEY FEATURES

- ▶ Supports mathematically lossless 4K video up to 4096x2160 at 60 Hz with 4:4:4 chroma sampling over one fiber
- ▶ Supports uncompressed 4K video up to 4096x2160 at 60 Hz with 4:4:4 chroma sampling over two fibers
- ▶ Integrated IPCP Pro Q xi control processor
- ▶ Digital audio expansion port provides a connection to an Extron ProDSP processor for audio system scalability
- ▶ Dante® audio network interface, DMP expansion port, and analog audio inputs and output
- ▶ 64x64 Dante I/O audio networking with Dante Domain Manager and AES67 support
- ▶ Secure partitioning segregates sources and destinations in a secure environment
- ▶ Priority switching prevents unauthorized access to sensitive data in a secure environment
- ▶ JITC Certified

SPECIFICATIONS

TRUE 4K SPECIFICATION		
Max 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max Bit Depth per Color
4096 x 2160 at 60 Hz ¹ 3840 x 2160 at 60 Hz ¹ 4096 x 2160 at 30 Hz ¹ 3840 x 2160 at 30 Hz ¹	4:4:4	8 bit
		10 bit
4096 x 2160 at 60 Hz ² 3840 x 2160 at 60 Hz ²	4:2:2	12 bit
4096 x 2160 at 30 Hz ² 3840 x 2160 at 30 Hz ²	4:4:4	
Frame rate ³	24, 25, 30, 50, or 60 fps	
Chroma sampling ³	4:4:4, 4:2:2	
Color bit depth ^{2,3}	8, 10, or 12 bits per color	
Signal Type	HDMI 2.0, HDCP 2.3	
Max. video data rate	18.0 Gbps	
NOTE: ¹ Supports lossless 4K video over one fiber or uncompressed 4K video over two fibers.		
² Supports 12-bit color bit depth for uncompressed 4K video over two fibers. When using a FOX3 SR scaling receiver, the scaler must be in bypass mode to pass 4K video with a 12-bit color bit depth.		
³ Subject to the maximum data rate limit. Use our calculator at www.extron.com/8KdataRate to determine video parameters supported by this data rate.		
NOTE: This product contains Class 1 laser. It meets the safety regulation of IEC 60825-1, FDA 21 CFR 1040.10, and FDA 21 CFR 1040.11.		

OPTICAL SPECIFICATIONS		
Operating distance		
Singlemode	20 km (12.4 miles) with singlemode (SM) cables	
Multimode	500 m (1640 feet) with 50 µm OM4 4700 MHz bandwidth laser optimized multimode cables	
AUDIO INPUT/OUTPUT BOARD		
Number/signal type		
	4 analog stereo inputs, balanced/unbalanced	
	4 analog stereo outputs, balanced/unbalanced	
AT PORTS – DANTE AUDIO TRANSPORT		
Transmission type		
	Dante/AES-67, software selectable	
CONTROL PROCESSOR – IPCP PRO Q XI CARD		
Hardware user interface		
Hardware	TouchLink® Pro touchpanels, Network Button Panels, or eBUS® button panels	
Ethernet		
Connectors	2 female RJ-45 connectors	
Serial		
Quantity/type	1 bidirectional RS-232	
USB configuration port		
Quantity/type	1 rear panel USB-C	
GENERAL		
Regulatory compliance		
	CE, c-UL, C-tick, FCC Class A, ICES, UL, VCCI Complies with the appropriate requirements of RoHS, WEEE.	
Product warranty		
	3 years parts and labor	
Model	Version Description	Part number
FOX3 Matrix 560x IPCP Pro	FOX3 Matrix 560x IPCP Pro	60-1978-12
FOX3 I/O 88 MM	8x8 I/O Board - Multimode	70-1107-01
FOX3 I/O 88 SM	8x8 I/O Board - Singlemode	70-1107-02

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

WORLDWIDE SALES OFFICES

Anaheim • Raleigh • Silicon Valley • Dallas • New York • Washington, DC • Toronto • Mexico City
Paris • London • Frankfurt • Amersfoort • Dubai • Tel Aviv • Sydney • Melbourne • Bangalore
Mumbai • New Delhi • Singapore • Seoul • Shanghai • Beijing • Hong Kong • Tokyo

www.extron.com