

FOX3 T 101 & FOX3 R 101

FIBER OPTIC EXTENDERS FOR HDMI



The FOX3 T 101 and FOX3 R 101 are a compact fiber optic transmitter and receiver designed for long haul transmission of HDCP-compliant HDMI video with embedded audio over fiber optic cabling. Designed specifically for AV systems, FOX3 101 extenders include many integrator-friendly features such as Key Minder®, EDID Minder®, internal test patterns, a USB-C configuration port, and remote configuration.

- ▶ Extends HDMI video and embedded audio signals over fiber optic cabling
- ▶ Supports mathematically lossless 4K video up to 4096x2160 at 60 Hz with 4:4:4 chroma sampling over one fiber
- ▶ Supported HDMI 2.0 specification features include data rates up to 18 Gbps, Deep Color up to 10-bit, and two-channel PCM audio
- ▶ HDCP 2.3 compliant
- ▶ Buffered HDMI input loop-through
- ▶ User-selectable HDCP authorization

DESCRIPTION

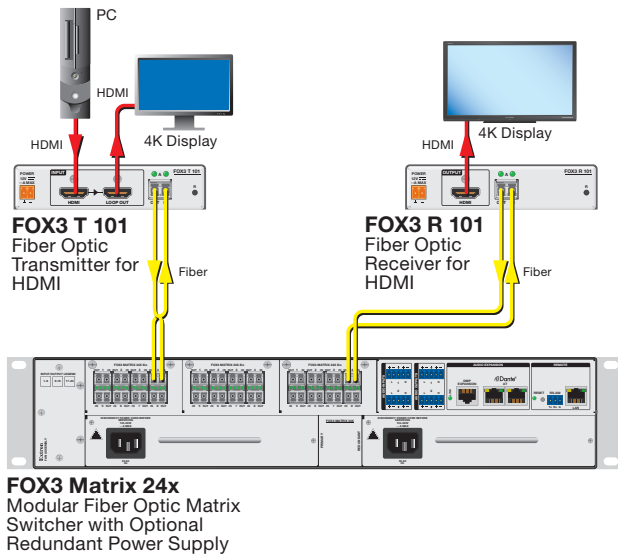
Engineered for exceptional high-resolution image performance, the **FOX3 T 101** and **FOX3 R 101** transmitter and receiver use Extron all-digital technology to deliver mathematically lossless transmission of images up to 4K/60 @ 4:4:4 over a fiber optic cable. A compact, low profile enclosure allows for discreet installation.

Supporting data rates up to 18 Gbps, the FOX3 101 is designed to extend mathematically lossless video images over one fiber, making it ideal for mission-critical applications or any environment that requires the transmission of very high-resolution imagery. Maintaining a 60 Hz frame rate with a 4:4:4 color space provides smooth frame transitions in full-motion video and ensures the details of high-quality computer images, such as CAD drawings, are preserved.

KEY FEATURES

- ▶ Transmits HDMI video and embedded audio signals over fiber optic cabling
- ▶ Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- ▶ EDID Minder® automatically manages EDID communication between connected devices
- ▶ HDCP Visual Confirmation
- ▶ Front panel USB-C configuration port
- ▶ Real-time status LED indicators for troubleshooting and monitoring
- ▶ Compatible with all Extron FOX3 Series matrix switchers and extenders
- ▶ Supports remote configuration and setup from the matrix when using a two-fiber bidirectional connection

APPLICATION DIAGRAM



SPECIFICATIONS

TRUE 4K SPECIFICATION

Max 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max Bit Depth per Color
4096 x 2160 at 60 Hz 3840 x 2160 at 60 Hz 4096 x 2160 at 30 Hz 3840 x 2160 at 30 Hz	4:4:4	8 bit
4096 x 2160 at 60 Hz 3840 x 2160 at 60 Hz	4:2:2	10 bit

Frame rate ¹	24, 25, 30, 50, or 60 fps
Chroma sampling ¹	4:4:4, 4:2:2
Color bit depth ¹	8 or 10 bits per color
Signal type	HDMI 2.0, HDCP 2.3
Max. video data rate	18.0 Gbps
NOTE: ¹ Subject to the maximum data rate limit. Use our calculator at www.extron.com/8Kdata to determine video parameters supported by this data rate.	
NOTE: These devices are class 1 laser products. They meet the safety regulations of IEC-60825, FDA 21 CFR 1040.10, and FDA 21 CFR 1040.11.	

OPTICAL FIBER INTERCONNECTION BETWEEN TRANSMITTER AND RECEIVER

Number/type	1 SFP
Connectors	2 LC connectors
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 (MM) cables
Maximum channel data rate	10.0 Gbps
Optical loss budget	
Singlemode	+7.4 dBm, maximum
Multimode	+9.7 dBm, maximum

COMMUNICATIONS

Number/signal type	1 front panel USB C, female
Standards	USB 2.0, High Speed
USB standards	Ethernet over USB
Program control	Extron Product Configuration Software Extron Simple Instruction Set (SIS™)

GENERAL

Enclosure dimensions	1.0" H x 4.3" W x 6.0" D (quarter rack wide) (2.5 cm H x 10.9 cm W x 15.2 cm D) (Depth excludes connectors.)
Regulatory compliance	CE, C-UL, C-tick, FCC Class A, ICES, KCC, RoHS, UL, VCCI, WEEE
Product warranty	3 years parts and labor
Everlast power supply warranty	7 years parts and labor

Model	Version Description	Part number
FOX3 T 101 MM	Lossless 4K/60 Transmitter - Multimode	60-1957-11
FOX3 T 101 SM	Lossless 4K/60 Transmitter - Singlemode	60-1957-12
FOX3 R 101 MM	Lossless 4K/60 Receiver - Multimode	60-1957-21
FOX3 R 101 SM	Lossless 4K/60 Receiver - Singlemode	60-1957-22

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

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