

FOX3 T 111 & FOX3 R 111

FIBER OPTIC EXTENDERS FOR HDMI



The **FOX3 T 111** and **FOX3 R 111** are compact fiber optic transmitters and receivers designed for long-haul transmission of HDCP-compliant HDMI video with embedded audio over fiber optic cabling. Designed specifically for AV systems, FOX3 111 extenders include many integrator-friendly features such as Key Minder®, EDID Minder®, internal test patterns, a USB-C configuration port, remote configuration, and Ethernet monitoring and control.

- ▶ 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
- ▶ Ethernet monitoring and control

DESCRIPTION

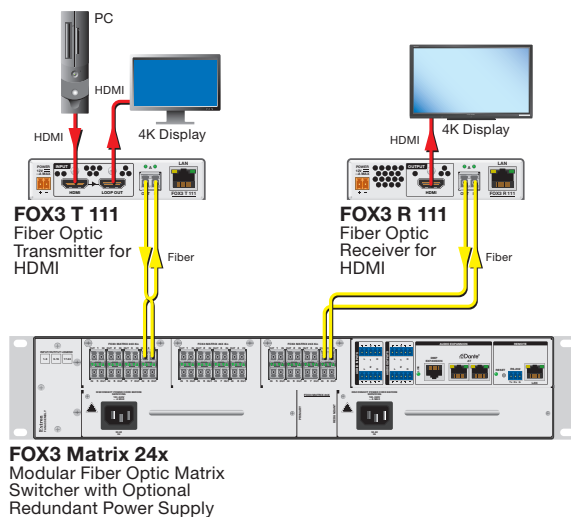
Engineered for exceptional high-resolution image performance, the **FOX3 T 111** and **FOX3 R 111** transmitter and receiver use Extron all-digital technology to deliver mathematically lossless transmission of images up to 4K/60 @ 4:4:4 over a fiber optic cable. A compact, low profile enclosure allows 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

- ▶ Transmit 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
- ▶ Ethernet monitoring and control enables control and proactive monitoring over a LAN, WAN, or the Internet

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	4:2:0	12 bit

Frame rate² 24, 25, 30, 50, or 60 fps

Chroma sampling² 4:4:4, 4:2:2

Color bit depth² 8 or 10 bits per color

Signal Type HDMI 2.0, HDCP 2.3

Max. video data rate 18.0 Gbps

NOTE: ¹Supports lossless 4K video over one fiber.

²Subject 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

USB configuration port	
Number/type	1 front panel USB-C, female
Standard	Ethernet over USB
Ethernet control	
Ethernet port	1 RJ-45 connector, female
Ethernet data rate	10/100/1000Base-T, half/full duplex with autodetect
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 111 MM	Lossless 4K/60 Transmitter - Multimode	60-1957-31
FOX3 T 111 SM	Lossless 4K/60 Transmitter - Singlemode	60-1957-32
FOX3 R 111 MM	Lossless 4K/60 Receiver - Multimode	60-1957-41
FOX3 R 111 SM	Lossless 4K/60 Receiver - Singlemode	60-1957-42

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

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