FOX3 T 301 PC

FIBER OPTIC TRANSMITTER FOR HDMI, USB, AUDIO, AND CONTROL





The Extron **FOX3 T 301 PC** Fiber Optic Transmitter is a compact single-slot module designed for the PowerCage 411 enclosure that provides HDMI video, USB, stereo audio, and control signal extension over fiber. Engineered for exceptional high resolution image performance, it uses Extron all-digital technology to deliver perfect pixel-for-pixel, uncompressed transmission of images up to 4K/60 @ 4:4:4 over two fibers or mathematically lossless 4K/60 video over one fiber. The USB port supports compliant USB 3.0 to 1.0 devices, while the USB HID port applies device class filtering to restrict the device types to HID.

- Extends HDMI, USB, stereo audio, and RS-232 control signals very long distances over fiber optic cabling
- Supports mathematically lossless 4K video up to 4096x2160 at 60 Hz with a 4:4:4 chroma sampling over one fiber
- Supports uncompressed 4K video up to 4096x2160 at 60 Hz with a 4:4:4 chroma sampling over two fibers
- Supported HDMI 2.0 specification features include data rates up to 18 Gbps, Deep Color up to 12-bit, and 3D
- ▶ HDCP 2.3 compliant
- Hot-swappable modules designed for the PowerCage 411 enclosure, part #60-1492-02



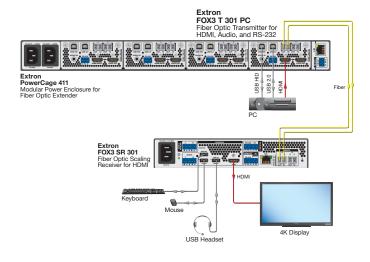
DESCRIPTION

The Extron FOX3 Series, which includes the FOX3 T 301 PC for the PowerCage 411, provides system designers and integrators with high performance fiber optic distribution solutions designed, engineered, and manufactured by Extron to meet the most demanding requirements of critical video and audio distribution applications. From point-to-point extension to fully non-blocking matrix applications up to 2000x2000 and beyond, FOX3 Systems securely deliver unrivaled performance and reliability to satisfy even the most discerning users.

KEY FEATURES

- Supports USB 2.0 to 1.0 devices and USB 3.0 devices that can operate at USB 2.0 data rates of up to 480 Mbps
- Device class filtering on USB HID port restricts the range of device types to HID
- Buffered HDMI input loop-through
- User-selectable HDCP authorization
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- EDID Minder® automatically manages EDID communication between connected devices
- Audio embedding
- Bidirectional RS-232 signal transmission over fiber optic cabling for AV device control
- ▶ Peripheral emulation on USB HID port

APPLICATION DIAGRAM



SPECIFICATIONS

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	4:4:4	8 bit		
4096 x 2160 at 30 Hz 3840 x 2160 at 30 Hz		10 bit		
4096 x 2160 at 60 Hz 3840 x 2160 at 60 Hz	4:2:2	40 1:1		
4096 x 2160 at 30 Hz 3840 x 2160 at 30 Hz	4:4:4	12 bit		
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 2.2			
Max. video data rate	18.0 Gbps			

	INTERIOUNIALOTIO	N BETWEEN TRANSMITTER AND I	ILOLIVLII	
Connectors		1, 2, or 3 LC connectors		
Nominal peak wave		850 nm for multimode, 1310 nm for singlemode		
Optical loss budget		7.4.10		
Singlemode		+7.4 dB, maximum		
Multimode		+9.7 dB, maximum		
VIDEO INPUT A	ND LOOP OUT			
Number/signal type		1 HDMI input		
		1 HDMI loop out		
AUDIO INPUT				
Number/signal type		1 digital audio, de-embedded from HDMI (2-CH, PCM		
3 . 3		only) or	, .	
		1 analog stereo, unbalanced		
USB HOST POI	RTS			
F0X3 T 301 PC				
Number/signal type		1 LISB HID		
rtumborroigna typo		1 USB 2.0		
F0X3 T 311 PC				
Number/signal type		1 USB HID		
GENERAL				
Power supply		Internal		
r owor suppry		Powered by the PowerCage 411 Enclosure		
NOTE: All nominal I	evels are at ±10%.	Tomorous by the Former ouge TTT Entitional		
Model	Version Description		Part number	
FOX3 T 301 PC MM	Lossless 4K/60 Transmi	tter - Multimode	70-1190-11	
FOX3 T 301 PC SM	Lossless 4K/60 Transmitter - Singlemode		70-1190-12	
	Uncompressed 4K/60 Transmitter - Multimode		70-1190-13	
FOX3 T 301 PC SM	Uncompressed 4K/60 Transmitter - Singlemode 70-1190-1		70-1190-14	

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

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