FOX T UWP 302

TWO INPUT FIBER OPTIC TRANSMITTER - DECORATOR-STYLE WALLPLATE

- Transmits HDMI or analog video and stereo audio signals very long distances over fiber optic cabling
- Provides pixel-for-pixel performance with signals up to 1920x1200, including HDTV 1080p/60
- Digital conversion of analog video
- Auto-input switching
- HDCP compliant
- Key Minder[®] continuously verifies HDCP compliance
- EDID Minder[®] automatically manages EDID communication between connected devices
- Audio embedding with gain and attenuation control
- LED indicators for signal presence, HDCP, and power
- Mounts in an included three-gang decorator-style wallplate
- Available as 850 nm multimode and 1310 nm singlemode models



The Extron FOX T UWP 302 Fiber Optic Transmitter is a two input decoratorstyle switcher for long haul transmission of HDCP-compliant HDMI, RGBHV, or HD component video and stereo audio over fiber optic cabling. With support for digital and analog video signals in a wall-mountable design, the FOX T UWP 302 is ideal for signal switching and long haul transmission in a wide range of applications.



DESCRIPTION

The Extron **FOX T UWP 302** Fiber Optic Extender is a two-input decorator-style switcher for long haul transmission of HDCP-compliant HDMI, RGBHV, or HD component video and stereo audio over fiber optic cabling. Engineered for reliability and exceptional high resolution image performance, it uses Extron all-digital technology to provide perfect pixel-for-pixel transmission of signals up to 1920x1200, including HDTV 1080p/60. Analog signals are digitized to ensure a high quality digital video signal is transmitted to the output destination. The FOX T UWP 302 also provides a host of integrator-friendly features, such as EDID Minder®, Key Minder®, automatic input switching, audio embedding, gain and attenuation adjustment, and real-time system monitoring. The FOX T UWP 302 occupies a three-gang space, and is available in multimode and singlemode models.

As part of the extensive FOX Series of fiber optic products from Extron, the FOX T UWP 302 is compatible with FOX Series HDMI, DVI Plus, DVI, and VGA receivers. This transmitter provides signal switching and extension over long distances for two sources: one digital and one analog. It can be used for simple point-to-point applications or in combination with FOX Series matrix switchers to support enterprise installations.

This two input switcher is ideal for a wide range of applications requiring long distance transmission of high resolution content with the highest quality. Because transmission of content is inherently secure and immune to outside interference, fiber applications are favored in government, military, and medical environments. The FOX T UWP 302 features industry standard LC-type connectivity.

To simplify integration and system operation, the FOX T UWP 302 features two Extron technologies: EDID Minder and Key Minder. EDID Minder automatically manages EDID by maintaining continuous EDID communication with the source, ensuring that sources power up properly and reliably output content for display. For HDMI signals with protected content, Key Minder authenticates and maintains continuous HDCP encryption to support quick and reliable switching in professional AV environments while enabling simultaneous distribution of a single source signal to one or more displays.

The transmitter accepts and digitizes unbalanced stereo audio. This allows the embedding of an audio signal into the output stream, reducing the number of cable runs to the destination. Additionally, the FOX T UWP 302 offers audio input gain and attenuation control, eliminating noticeable volume differences when switching between sources.

The included decorator-style wallplate is designed to provide a convenient AV connection point that blends in with the environment. The wall-mount design and reduced cabling needs of the FOX T UWP 302 allow for discreet placement in space-constrained applications.

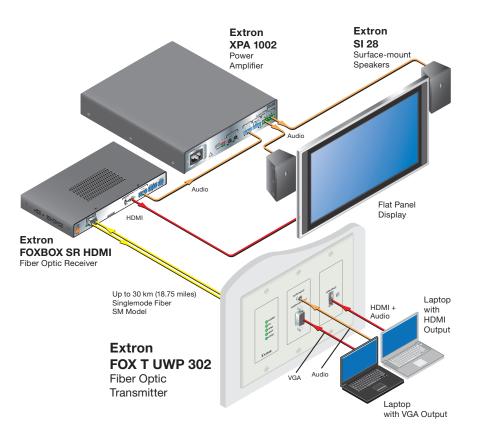
FEATURES

- Transmits HDMI or analog video and stereo audio signals very long distances over fiber optic cabling – Provides high reliability and maximum performance over fiber optic cabling.
- All digital technology provides pixel-for-pixel performance with signals up to 1920x1200, including HDTV 1080p/60 – Delivers pixel-for-pixel transmission of video signals to ensure optimal image quality at resolutions up to 1920x1200.
- Digital conversion of analog video Analog signals are digitized, ensuring that a reliable, high quality digital video signal is sent to the output destination.
- Auto-input switching Automatically switches to highest priority input with an active video signal for simplified operation.
- HDCP compliant
- Key Minder[®] continuously verifies HDCP compliance Key Minder authenticates and maintains continuous HDCP encryption between input and output devices to ensure quick and reliable switching in professional AV environments, while enabling simultaneous distribution of a single source signal to one or more displays.
- EDID Minder[®] automatically manages EDID communication between connected devices – EDID Minder ensures that all sources power up properly and reliably output content for display.
- Audio embedding When the analog input is selected, analog stereo audio signals are converted to digital HDMI audio.
- Audio gain and attenuation adjustment
- ▶ LED indicators for signal presence, HDCP, and power Provides a visual indication of system status for real-time feedback and monitoring of key performance parameters.
- Mounts in an included three-gang decorator-style wallplate The three-gang decorator-style wallplate is available in black or white to blend with a wide range of environments.
- Available as an 850 nm multimode model for moderaterange transmissions up to 2 km (1.25 miles), and a 1310 nm singlemode model for extreme distances up to 30 km (18.75 miles)
- Industry standard LC connectors provide reliable physical connectivity and precise fiber core alignment
- Compatible with Extron FOX Matrix Switchers to create HDCP-compliant signal distribution systems up to 1000x1000 and larger
- Compatible with Extron FOX Series HDMI, DVI Plus, DVI, and VGA receivers
- Front panel USB configuration port
- Includes LockIt[®] HDMI cable lacing bracket
- Energy-efficient external universal power supply included, replacement part # 70-775-01 – Provides global compatibility, low power consumption, and reduced operating costs.

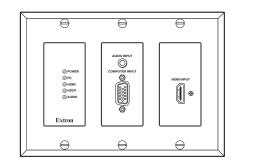
SPECIFICATIONS

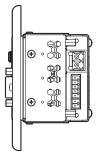
NOTE: These units are class 1 laser products. They meet the safety regulations of IEC-60825.				
OPTICAL FIBER INTERCONNECTIO	N BETWEEN TRANSMITTER AND RECEIVER			
Number/type	1 or 2 fiber optic			
Connectors	2 LC connectors			
Operating distance				
Singlemode	30 km (18.75 miles) with singlemode (SM) cables			
Multimode	300 m (984') with 62.5 µm OM1 multimode (MM) cables			
	1 km (3280') with 50 μm OM2 multimode (MM) cables 2 km (6561') with 50 μm OM3/OM4 2000/4700 MHz			
	bandwidth laser optimized multimode cables			
Nominal peak wavelength	850 nm for MM, 1310 nm for SM			
Data rate	4.25 Gbps			
Maximum pixel clock	165 MHz			
Transmission power				
Singlemode	-5 dBm, typical			
Multimode	-5 dBm, typical			
Maximum receiver sensitivity				
Singlemode	-18 dBm, typical			
Multimode	-12 dBm, typical			
Optical loss budget	12 dP movimum			
Singlemode Multimode	13 dB, maximum 7 dB, maximum			
	и ub, Шалініціні			
VIDEO				
Digital				
Resolution range	640x480 up to 1920x1200, 480p, 576p, 720p, 1080i,			
	1080p @ 60 Hz sampled pixel for pixel; higher resolution 2K (2048x1080) @ 60 Hz undersampled			
Resolution range	640x480 to 1920x1200*, 480p, 576p, 720p, 1080i,			
nesolution range	1080p sampled pixel for pixel			
Formats	RGB and YCbCr digital video			
Standards	DVI 1.0, HDMI compliant, HDCP 1.1, CEA-861E			
Analog				
Maximum resolution	Up to 1920x1200 or 1080p @ 60 Hz pixel for pixel			
Signal type	VGA-UXGA RGBHV, RGBS, component video			
Gain	Unity			
Pixel data bit depth	8 bits per channel, 3 channels (R, G, B; or YUV)			
VIDEO INPUT				
Digital				
Number/signal type	1 single link HDMI (HDCP compliant)			
Connectors	1 female 19-pin HDMI Type A			
Equalization	Up to 50' of cable			
Analog Number/signal type	1 VGA-UXGA RGBHV, RGBS, component video (YUVp/			
Number/Signal type	HDTV)			
Connectors	1 female 15-pin HD			
Nominal level	1 Vp-p for Y of component video			
	0.7 Vp-p for RGB and for R-Y and B-Y of component video			
Minimum/maximum levels	Analog: 0.3 V to 0.75 Vp-p with no offset, terminated			
Impedance	75 ohms			
Horizontal frequency	30 kHz to 100 kHz			
Vertical frequency	24 Hz to 120 Hz			
Return loss	<-40 dB @ 5 MHz			
SYNC				
Input type	RGBHV, RGBS, bi-level and tri-level component video			
	(480p, 576p, 720p, 1080i, 1080p)			
Input level	2.5 V to 5.0 Vp-p for RGBHV or RGBS			
	0.6 Vp-p for component video with tri-level sync			
Input impodance	0.3 Vp-p for component video with bi-level sync 510 ohms			
Input impedance Polarity	Positive or negative (follows input or can be set by user)			
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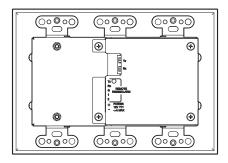
AUDIO			
Gain			
Range		Adjustable, -18 dB to +10 dB	
Default		Unbalanced output: -6 dB	
Frequency response		20 Hz to 20 kHz ±0.5 dB	
THD + Noise		0.10% @ 1 kHz at nominal level	
S/N		>80 dB at maximum output (unweighted)	
Audio bits per sample		18 bits per channel, 2 channels (L, R)	
Sampling rate		48 kHz	
AUDIO INPUT			
Number/signal type		1 unbalanced stereo	
Connectors		(1) 3.5 mm mini stereo jack	
Impedance		>10k ohms unbalanced	
Nominal level		-10 dBV (316 mVrms)	
Maximum level	Vrma 0 dDV 1 Vrma	+7 dBV unbalanced	
NOTE: 0 dBu = 0.775		U UDV ≈ Z UDU	
COMMUNICATION	1S		
Serial control port			
Control		1 RS-232, 3.5 mm captive screw connector, 5 pole	
		(3 pins are used, "Remote RS-232", shared with alarm	
		port), side panel	
USB control port		1 front panel female mini USB B	
GENERAL			
Power supply		External	
		Input: 100-240 VAC, 50-60 Hz	
		Output: 12 VDC, 1 A, 12 watts	70.00 /
Temperature/humidity		Storage: -40 to +158 °F (-40 to +70 °C) /	
		10% to 90%, noncondensing Operating: +32 to +104 °F (0 to +40 °C) /	
		, , , , , , , , , , , , , , , , , , ,	+40 °C) /
Cooling		10% to 90%, noncondensing Convection, vents on the rear and	Leidoe
Thermal dissipation			1 31063
Device		20.6 BTU/hr	
Device and power supply		26.2 BTU/hr	
Mounting			
Furniture or wall mount		Yes, with standard decorator-style wall plate	
Enclosure type		Metal	
Enclosure dimensions			
Faceplates	aceplates Three [2.6" H* x 1.3" W x 0.3" D (6.6 cm H* x 3		(6.6 cm H* x 3.3 cm W
		x 0.6 cm D)]	
		(Depth excludes connectors. Fits	the openings in a 3 gan
		decorator-style wallplate.) *Overall height is 4.1" (10.4 cm) including mounting tabs	
Davias			
Device Product weight		4.1" H x 5.36" W x 2.21" D (3-gang wide) 0.7 lbs (0.3 kg) per unit	
Product weight Vibration		ISTA (International Safe Transit Association)	
Regulatory compliance	1	ומוזאון אזיטיומו שמוד וומוזאון אא	
Safety		CE, c-UL, UL	
EMI/EMC		CE, C-tick, FCC Class A, ICES, VCCI Class A	
Environmental		Complies with the appropriate requirements of RoHS,	
		WEEE	
Warranty		3 years parts and labor	
NOTE: All nominal leve	ls are at ±10%.		
Model	Version Description		Part number
FOX T UWP 302 MM	Multimode - Wallplate		60-1232-11
FOX T UWP 302 SM	Singlemode - Wallpla		60-1232-12
FOX T UWP 302 MM	Multimode - Wallplate		60-1232-13
FOX T UWP 302 SM	Singlemode - Wallplate Transmitter White		60-1232-14
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PANEL DRAWINGS







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