FOX T USW 103

THREE INPUT SWITCHER WITH INTEGRATED FIBER OPTIC TRANSMITTER FOR HDMI, VGA, AUDIO, AND RS-232

- Transmits HDMI or digitized analog video, stereo audio, and bidirectional RS-232 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 and audio input signals
- ▶ Auto-input switching
- **▶** HDCP compliant
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- EDID Minder® automatically manages
 EDID communication between
 connected devices
- ▶ Audio embedding
- Audio gain and attenuation adjustment capability
- ➤ Available as 850 nm multimode and 1310 nm singlemode models



The FOX T USW 103 provides video, audio, and control signal extension over long distances for up to three sources. It supports high resolution digital and analog formats, and includes a host of integrator-friendly features. The FOX T USW 103 is ideal for a wide range of applications requiring long haul transmission of high resolution content with the highest quality.



DESCRIPTION

The Extron **FOX T USW 103** Three Input Switcher with Integrated Fiber Optic Transmitter provides long haul transmission of HDCP-compliant HDMI, RGBHV, or HD component video, stereo audio, and RS-232 signals over fiber optic cabling. Engineered for reliability and exceptional high resolution image performance, it uses Extron all-digital technology to deliver perfect pixel-for-pixel transmission of images up to 1920x1200, including HDTV 1080p/60. The switcher is equipped with a host of integrator-friendly features such as EDID Minder®, Key Minder®, audio embedding, audio gain and attenuation control, auto-input switching, and real-time system monitoring. A compact, low profile enclosure allows for discreet installation.

The FOX T USW 103 provides AV signal switching and extension over long distances for up to two HDMI sources and one RGB source. Analog signals are digitized to ensure high quality transmission to the output destination. As part of the extensive FOX Series of fiber optic products from Extron, the FOX T USW 103 is compatible with Extron FOX Series HDMI, DVI Plus, DVI, and VGA receivers. It can be used for simple point-to-point applications or in combination with a FOX Series matrix switcher to support enterprise installations.

This three input switcher supports 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 USW 103 includes industry standard LC-type connectivity.

To simplify integration, it features two Extron-exclusive technologies: EDID Minder and Key Minder. EDID Minder automatically manages EDID by maintaining continuous EDID communication with each 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.

The FOX T USW 103 accepts and digitizes unbalanced analog stereo audio, embedding the signal for extended transmission. The transmitter also provides input gain and attenuation control, eliminating noticeable volume differences when switching between sources.

FEATURES

- Transmits HDMI or digitized analog video, stereo audio, and RS-232 signals very long distances over fiber optic cabling – Analog and digital video inputs provide system flexibility to extend AV and control signals up to 30 km when using singlemode fiber optic cabling.
- ▶ All digital technology provides pixel-for-pixel performance with signals up to 1920x1200, including HDTV 1080p/60 The FOX T USW 103 delivers pixel-for-pixel transmission of video signals to ensure optimal image quality up to 1920x1200.

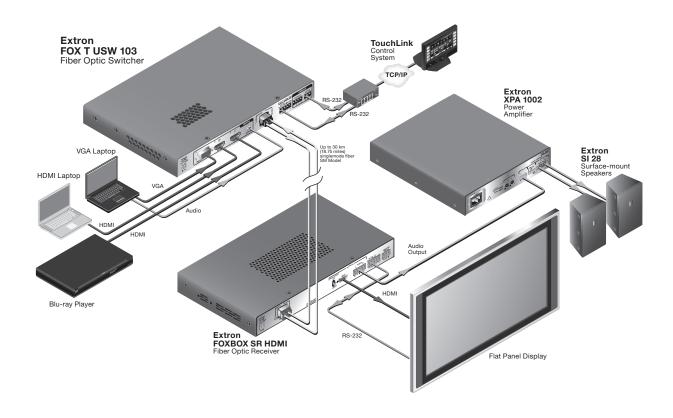
FEATURES (Cont.)

- Digital conversion of analog video and audio input signals 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 the highest priority input with an active video signal for simplified operation.
- ▶ HDCP compliant
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching – 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 to multiple 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 active, analog stereo audio input 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.
- ▶ RS-232 control The FOX T USW 103 features an RS-232 serial port for control and configuration.
- ▶ Contact closure remote control
- ➤ 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 Compatible with FOX Series HDMI and DVI Plus receivers up to 1920x1200, including HDTV 1080p/60. Compatible with FOX Series DVI and VGA receivers up to 1600x1200, including HDTV 1080p/60.
- ▶ Front panel USB configuration port
- ▶ 1" (2.5 cm) high, half rack width metal enclosure Compact, low profile enclosure for discreet placement and concealment.
- ▶ Includes LockIt® HDMI cable lacing brackets
- ▶ Energy-efficient external universal power supply included, replacement part # 70-775-01 Provides global compatibility, low power consumption, and reduced operating costs.

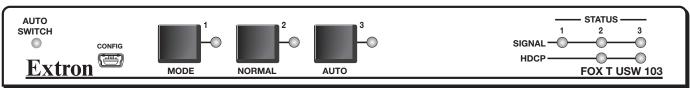
SPECIFICATIONS

NOTE: These units are class 1 laser products. They meet the safety regulations of IEC-60825, FDA 21 CFR 1040.10, and FDA 21 CFR 1040.11.		
OPTICAL FIBER INTERCONNECTION	ON 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 with a SM unit $$	
Multimode	$300~\text{m}$ (985') with 62.5 μm OM1 multimode (MM) cables with a MM unit	
	1 km (3280') with 50 μm OM2 multimode (MM) cables with a MM unit	
	2 km (6561') with 50 µm 0M3/0M4 2000 MHz bandwidth laser optimized multimode cable with a MM unit	
NOTE: Operating distance is approximate. T	hese are typical maximum distances that may vary	
	bandwidth, connector splicing, losses, modal or chromatic	
Nominal peak wavelength	850 nm for MM units, 1310 nm for SM units	
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		
Singlemode	13 dB, maximum	
Multimode	7 dB, maximum	
VIDEO		
Digital Resolution range	Up to 1920x1200 or 1080p @ 60 Hz, 8-bit color	
Formats	RGB, YCbCr, and xvYCC digital video	
Standards	DVI 1.0, HDMI compliant, HDCP 1.1, CEA-861E	
Analog	DVI 1.0, HDIVII COMPIIANI, HDOI 1.1, OLA-001L	
Maximum resolution	1600x1200 or 1080p @ 60 Hz, digitized pixel for pixel; higher resolutions up to 2048x1120, undersampled	
Signal type Gain	VGA-UXGA RGBHV, RGBS, component video Unity	
Pixel data bit depth	8, 10, or 12 bits per channel, 3 channels (R, G, B; or YUV)	
VIDEO INPUT		
Digital		
Number/signal type	2 HDMI, DVI, or DisplayPort	
Connectors	2 female HDMI	
Equalization	Up to 50' of cable	
Analog		
Number/signal type	1 VGA-UXGA RGBHV, RGBS, RGSB, RsGsBs, component video (YUVp/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	24 kHz to 100 kHz	
Vertical frequency	40 Hz to 120 Hz	
Return loss	<-40 dB @ 5 MHz	
SYNC		
Input type	RGBHV, RGBS, RGsB, RsGsBs, bi- level and tri-level	
F 21-	component video (480p, 576p, 720p, 1080i, 1080p)	
Input level	2.5 V to 5.0 Vp-p	
Input impedance	10k ohms	
Polarity	Positive or negative (follows input or can be set by user)	

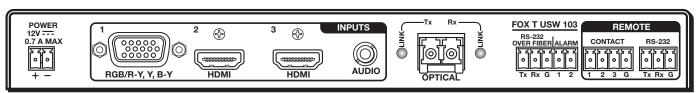
ALIDIO		
AUDIO		
Gain Range	Adjustable, -18 dB to +12 dB	
Default	Unbalanced output: -6 dB	
Frequency response	20 Hz to 20 kHz, ±0.5 dB	
THD + Noise	0.10% @ 1 kHz at nominal level	
S/N	>80 dB at maximum output (unweighted)	
CMRR	65 dB @ 20 Hz to 20 kHz	
Audio bits per sample	18 bits per channel, 2 channels (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 NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrm	+7 dBV unbalanced s ∩ dBV ~ 2 dBu	
·	S, U UDV ≈ ∠ UDU	
CONTROL/REMOTE		
Serial control ports Control	1 DC 000 0 5 mm conting corpu connects	or 9 nolo
Control	1 RS-232, 3.5 mm captive screw connector (rear panel)	or, a poie
Pass-through	1 RS-232, 3.5 mm captive screw connector	or 5 note
1 400 411 04911	(3 pins are used, "RS-232 Over Fiber", shared with	
	alarm port) (rear panel)	
Baud rate and protocol		
Control	9600 baud, 8 data bits, 1 stop bit, no parit	у
Pass-through	9600 to 115,200 baud	
Serial control pin configuration	1 = Tx, 2 = Rx, 3 = GND	
USB control port USB standards	1 front panel female mini USB B USB 2.0, low speed	
Contact closure	(1) 3.5 mm captive screw connector, 4-pol	ρ
Contact closure pin configuration	1 = input 1, 2 = input 2, 3 = input 3, 4 =	
GENERAL		
GENERAL Power supply	Fyternal	
GENERAL Power supply	External Input: 100-240 VAC, 50-60 Hz	
	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A	
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PANEL DRAWINGS



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