FOXBOX DVI Plus

FIBER OPTIC EXTENDER FOR DVI, AUDIO, AND RS-232



FOXBOX Tx DVI Plus



The Extron FOXBOX DVI Plus Fiber Optic Extender is a transmitter and receiver set for long haul transmission of DVI, audio, and RS-232 control signals over a single fiber. Engineered for reliability and exceptional high resolution image performance, it uses Extron all-digital technology, and also includes many integrator-friendly features for enhancing AV system integration.

- Extends DVI, stereo audio, and RS-232 control signals long distances over a single fiber
- All-digital technology provides pixelfor-pixel performance up to 1920x1200, including HDTV 1080p/60 and 2K
- Integrates easily into a wide range of 4K and UHD environments
- Daisy-chain capability
- Available as 850 nm multimode and 1310 nm singlemode models
- Real-time status LED indicators for troubleshooting and monitoring
- Alarm notification for fiber link loss
- Auto Input Memory
- EDID emulation
- Audio gain & attenuation adjustment and muting capability
- RS-232 serial control at transmitter and receiver
- Internal test patterns for calibration and setup
- Low profile, mountable enclosures



DESCRIPTION

FEATURES

The Extron **FOXBOX DVI Plus** Fiber Optic Extender is a transmitter and receiver set for long haul transmission of DVI, audio, and RS-232 control signals over a single fiber. Engineered for reliability and exceptional high resolution image performance, it uses Extron all-digital technology, to deliver perfect pixel-for-pixel transmission of DVI computer-video images up to WUXGA 1920x1200 resolution, including HDTV 1080p/60 and 2K. The FOXBOX DVI Plus also includes an EDID emulation mode, Auto Input Memory, RS-232 control, internal test patterns, and real-time system monitoring. Compact, low profile enclosures allow for discreet installation behind a flat-panel display, and multiple receivers can be daisy-chained.

The FOXBOX DVI Plus 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 FOXBOX DVI Plus transmitter and receiver feature industry standard LC-type connectivity.

The FOXBOX DVI Plus MM supports multimode fiber at 850 nm, which is typically used within buildings or facilities with moderaterange transmission distances up to 2 km (1.25 miles). The FOXBOX DVI Plus SM supports singlemode as well as multimode fiber at 1310 nm. Singlemode fiber offers long-range transmission capability over extreme distances of up to 30 km (18.75 miles). It is used in very large facilities such as airports and stadiums, as well as connecting over very long distances between facilities such as university campuses.

The FOXBOX DVI Plus transmitter accepts and digitizes unbalanced stereo audio and RS-232 control signals, and transmits them along with the DVI-D signals. EDID emulation ensures that the transmitter properly communicates with the DVI source. Several FOXBOX DVI Plus receivers may be daisy-chained to support applications with displays in multiple locations.

The transmitter and the receiver can be controlled and configured using the RS-232 port on the FOXBOX DVI Plus transmitter. With a second fiber link installed, functions for both units can be controlled at either location. Since the units are typically situated far apart, this capability adds considerable versatility, enabling adjustment and calibration of audio at the receiver. It also allows for verification of fiber link status between the units as well as the presence of DVI-D and audio input signals at the transmitter.

Analog RGB-to-DVI and DVI-to-RGB Conversion

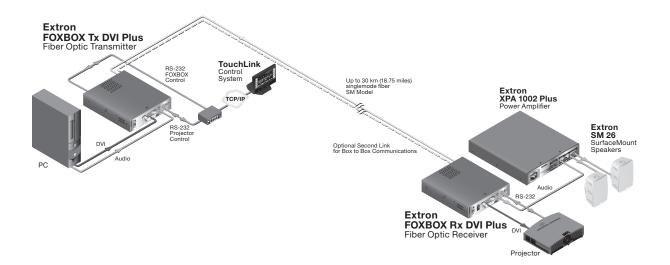
The FOXBOX DVI Plus is ideal for hybrid AV systems that include a variety of analog and digital displays and sources. Pairing a FOXBOX Tx DVI Plus transmitter with a FOX Series VGA receiver provides easy conversion of DVI-D to analog RGB. Likewise, pairing a FOX Series VGA or VGA/YUV transmitter with a FOXBOX Rx DVI Plus receiver easily converts analog RGB or HD component video to DVI-D.

The FOXBOX DVI Plus transmitter and receiver can also be used in conjunction with FOX Series distribution amplifiers and matrix switchers for signal distribution systems up to 1000x1000 and larger.

- Extends single link DVI-D, stereo audio, and RS-232 control signals very long distances over a single fiber
- All-digital technology provides pixel-for-pixel performance up to 1920x1200, including HDTV 1080p/60 and 2K
- Integrates easily into a wide range of 4K and UHD environments – FOX Series matrix switchers and extenders can be configured for use with 4K sources and displays with resolutions up to 4096x2160.
- Daisy-chain capability Several FOXBOX DVI Plus receivers can be daisy-chained so that displays in multiple locations can be served from a single transmitter.
- 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)
- Real-time status LED indicators for troubleshooting and monitoring – LEDs on the transmitter and receiver front panels verify the presence of DVI and audio signals at the transmitter as well as active fiber links between the units. Requires second fiber link.
- Alarm notification for fiber link loss The FOXBOX DVI Plus can be set up to trigger an external control system for immediate notification when a fiber link has been lost. Requires second fiber link.
- Auto Input Memory When activated, the FOXBOX DVI Plus receiver automatically stores position and detail settings based on the incoming signal. When the same signal is detected again, these image settings are automatically recalled from memory.
- EDID Emulation provides selectable resolutions and refresh rates to ensure reliable operation – The FOXBOX Tx DVI Plus provides a means for specifying the rate of the incoming signal, ensuring proper communication with the DVI source.
- Industry standard LC connectors provide reliable physical connectivity and precise fiber core alignment
- 30 user memory presets In addition to Auto Memory, 30 user memory presets on the FOXBOX DVI Plus receiver are available for saving and recall of position and detail information for multiple incoming sources. The ability to save and recall presets is useful in switcher-based environments.
- Audio gain and attenuation adjustment and muting capability
- RS-232 serial control at transmitter and receiver The FOXBOX DVI Plus transmitter and receiver feature RS-232 serial ports for control and configuration.
- Internal test patterns for calibration and setup Three test patterns are available, including grayscale, color bars, and alternating pixels.
- 1" (2.5 cm) high, quarter rack width metal enclosures With a low profile enclosure, both devices can be discreetly installed, such as above a projector or behind a flat-panel display.
- Energy-efficient external universal power supply included Provides worldwide compatibility, low power consumption, and reduced operating costs

NOTE: The FOXBOX Tx DVI Plus transmitter is compatible only with the FOXBOX Rx DVI Plus receiver. NOTE: These transceivers are class 1 laser products. They meet the safety regulations of IEC-60825, FDA 21 CFR 1040.10, and FDA 21 CFR 1040.11.		
	ION BETWEEN TRANSMITTER AND RECEIVER	
Number/type	1 or 2 fiber optic	
Connectors	2 LC connectors	
Operating distance	2 E0 Connectors	
Singlemode	30 km (18.75 miles) with singlemode (SM) cables with a	
oingiernoue	FOXBOX SM	
Multimode	300 m (985') with 62.5 μm multimode (MM) cables with a	
	FOXBOX MM	
	1 km (3280') with 50 µm multimode (MM) cables with a	
	FOXBOX MM	
	2 km (6561') with 50 µm 2000 MHz bandwidth laser optimized multimode cable with a FOXBOX MM	
NOTE: Operating distance is approximate	These are typical maximum distances that may vary	
	er bandwidth, connector splicing, losses, modal or chromatic	
dispersion, environmental factors, and kinks.		
Nominal peak wavelength	850 nm for FOXBOX MM, 1310 nm for FOXBOX SM	
Data rate	4.25 Gbps	
Transmission power		
Singlemode	-5 dBm, typical	
Multimode	-5 dBm, typical	
Maximum receiver sensitivity		
Singlemode	-18 dBm, typical	
Multimode Optical loss budget	-12 dBm, typical	
Singlemode	13 dB, maximum	
Multimode	7 dB, maximum	
VIDEO		
VIDEO		
NOTE: *Appropriate DV/LD to UDML cobleg	or adoptors are required for LIDMI aignal input/output. The	
	or adapters are required for HDMI signal input/output. The ribute HDMI signals if you use a DVI-to-HDMI adapter	
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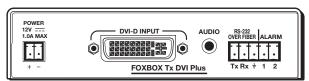
AUDIO INPUT – TRANS	MITTERS
Number/signal type	1 unbalanced stereo or 2 unbalanced mono
Connectors	(1) 3.5 mm mini stereo jack
Impedance	18k ohms unbalanced, DC coupled
Nominal level	-10 dBV (316 mVrms)
Maximum level	+8.9 dBV, (unbalanced) at 1% THD+N
NOTE: 0 dBu = 0.775 Vrms, 0 d	
AUDIO OUTPUT – REC	FIVERS
Number/signal type	1 unbalanced stereo or 2 unbalanced mono
Connectors	(1) 3.5 mm mini stereo jack
Impedance	50 ohms unbalanced
Nominal level	-10 dBV (316 mVrms)
Maximum level (Hi-Z)	+7.6 dBu, unbalanced at 1% THD+N
Maximum level (600 ohm)	>+6.3 dBu, unbalanced at 1% THD+N
Audio delay	1.5 frames
CONTROL/REMOTE	
	t (transmitter and respirer)
Serial control ports on each un	
Control Pass-through	1 RS-232, 2.5 mm mini stereo jack (front panel) 1 RS-232, 3.5 mm captive screw connector, 5-pole
Pass-unough	(3 pins are used) (rear panel)
Baud rate and protocol	(5 pills are used) (real parter)
Control	9600 baud, 8 data bits, 1 stop bit, no parity
Pass-through	9600 to 115,200 baud
Program control	Extron control/configuration program for Windows®
riogram control	Extron Simple Instruction Set (SIS [™])
GENERAL	
External power supply	100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A,
Deres in the state of the	regulated
Power input requirements	12 VDC, 0.6 A
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
	Operating: +32 to +122 $^{\circ}$ F (0 to +50 $^{\circ}$ C) / 10% to 90%,
	noncondensing
Cooling	Convection, vents on top and side panels
Thermal dissipation	
Transmitter	
115 VAC, 60 Hz	2.9 BTU/hr
240 VAC, 50 Hz	4.0 BTU/hr
Receiver	
115 VAC, 60 Hz	2.7 BTU/hr
240 VAC, 50 Hz	3.9 BTU/hr
Mounting	
Rack mount	Yes, with optional rack shelf
Furniture mount	Yes, with optional under desk mounting kit
Enclosure type	Metal
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)
B I I I I I	(Depth excludes connectors.)
Product weight	0.7 lbs (0.3 kg) per unit, 1.4 lbs (0.6 kg) per pair
Shipping weight Vibration	3 lbs (2 kg) per unit, 6 lbs (3 kg) per pair ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	ISTA TA ILI CALUIT (ILLEHTAUOHAI SAIE ITANSILASSOCIALION)
Safety	CE, c-UL, FDA Class 1, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI
MTBF	30,000 hours
Warranty	3 years parts and labor
NOTE: All nominal levels are at :	
Model	Version Description Part number
FOXBOX Tx DVI Plus MM	Multimode - Transmitter 60-1060-11
FOXBOX Rx DVI Plus MM	Multimode - Receiver
FOXBOX Tx DVI Plus SM	Singlemode - Transmitter
FOXBOX Rx DVI Plus SM	Singlemode - Receiver 60-1060-22



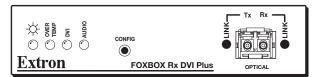
PANEL DRAWINGS



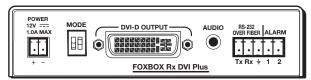
FOXBOX Tx DVI Plus - Front



FOXBOX Tx DVI Plus - Back



FOXBOX Rx DVI Plus - Front



FOXBOX Rx DVI Plus - Back

Worldwide Sales Offices -

Anaheim • Raleigh • Silicon Valley • Dallas • New York • Washington, DC • Toronto • Mexico City • Paris • London • Frankfurt Amersfoort • Moscow • Dubai • Johannesburg • New Delhi • Bangalore • Singapore • Seoul • Shanghai • Beijing • Tokyo

UNITED STATES

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