FOXBOX VGA Series

Fiber Optic Extenders for VGA, Audio, and RS-232
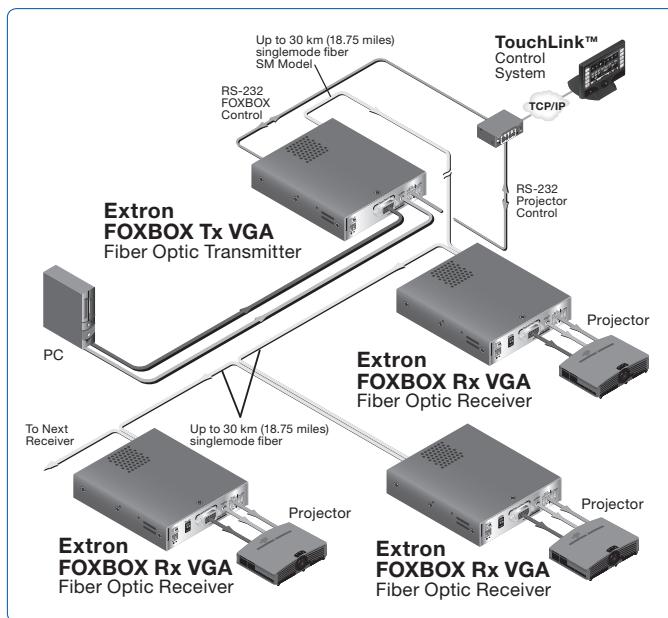

FOXBOX Tx VGA

FOXBOX Rx VGA

DESCRIPTION

The Extron **FOXBOX VGA Series** Fiber Optic Extenders are transmitter and receiver sets for long haul transmission of high resolution VGA or HD component video, audio, and RS-232 control signals over a single fiber. Engineered for reliability and exceptional high resolution image performance, they use Extron-exclusive all digital technology to deliver perfect pixel-for-pixel transmission of computer-video images up to UXGA (1600x1200) resolution. The FOXBOX VGA Series also includes a host of integrator-friendly features such as image adjustments and calibration, Auto Input Memory, RS-232 control, 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.

SERIES FEATURES

- All digital technology provides pixel-for-pixel performance with signals up to 1600x1200, including HDTV 1080p/60

- Daisy-chain capability

- Real-time status LED indicators for troubleshooting and monitoring

- Alarm notification for fiber link loss

- Auto Input Memory

- RS-232 control at transmitter and receiver

- 1" (2.5 cm) high, quarter rack width metal enclosures

SPECIFICATIONS

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.

OPTICAL FIBER INTERCONNECTION BETWEEN TRANSMITTER AND RECEIVER	
Number/type	1 or 2 fiber optic
Operating distance	
Singlemode	30 km (18.75 miles) with singlemode (SM) cables with a FOXBOX SM
Multimode	300 m (985') with 62.5 µm OM1 multimode (MM) cables with a FOXBOX MM
	1 km (3280') with 50 µm OM2 multimode (MM) cables with a FOXBOX MM
	2 km (6561') with 50 µm OM3/OM4 2000 MHz bandwidth laser optimized multimode cable with a FOXBOX MM
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	-12 dBm, typical
Optical loss budget	
Singlemode	13 dB, maximum
Multimode	7 dB, maximum

VIDEO	
Signal type	
VGA models	VGA-UXGA RGBHV, RGBS, RGsB, RsGsBs
VGA/YUV models	VGA-UXGA RGBHV, RGBS, component video

NOTE: For non-scaling receivers, color space follows the input source. HD component video from a transmitter is output from the receiver in a YUV 4:4:4 color space.

VIDEO OUTPUT - FOXBOX RX VGA	
Number/signal type	With input from a FOXBOX Tx VGA or a FOX 500 Tx:
	1 VGA-UXGA RGBHV, RGsB (follows input or can be set by user)
	With input from a FOXBOX Tx VGA/YUV:
	1 VGA-UXGA RGBHV, RGBS, component video (bi- or tri-level YUV, 480p, 576p, 720p, 1080i, 1080p)

SYNC	
Input type	
VGA models	RGBHV, RGBS, RGsB, RsGsBs
VGA/YUV models	RGBHV, RGBS, component video (bi- or tri-level sync)

GENERAL	
Power input requirements	12 VDC, 0.6 A
Thermal dissipation	
Transmitters	
VGA model	11.4 BTU/hr
VGA/YUV model	17.5 BTU/hr
Receivers	
VGA model	10.9 BTU/hr
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.)
Product weight	0.7 lbs (0.3 kg) per unit, 1.4 lbs (0.6 kg) per pair

For complete specifications, please go to www.extron.com

FOXBOX VGA   Fiber Optic Extender for VGA, Audio, and RS-232

UNIQUE FEATURES

- Extends VGA, stereo audio, and RS-232 control signals very long distances over a single fiber

- Inputs: RGBHV, RGBS, RGsB, or RsGsBs on 15-pin HD; unbalanced stereo audio on 3.5 mm stereo mini jack - FOXBOX 4G Tx VGA

FOXBOX Tx VGA

FOXBOX Rx VGA

MODEL	VERSION DESCRIPTION	PART #
FOXBOX Tx VGA MM	Multimode - Transmitter	60-934-11
FOXBOX Tx VGA SM	Singlemode - Transmitter	60-934-12
FOXBOX Rx VGA MM	Multimode - Receiver	60-934-21
FOXBOX Rx VGA SM	Singlemode - Receiver	60-934-22

FOXBOX Tx VGA/YUV   Fiber Optic Extender for VGA or HD Component Video, Audio, and RS-232

UNIQUE FEATURES

- Extends VGA or HD component video, stereo audio, and RS-232 control signals very long distances over a single fiber

- Inputs: RGBHV/RGBS or YUV on 15-pin HD; unbalanced stereo audio on 3.5 mm stereo mini jack

- Compatible with HD component video, bi-level or tri-level sync

MODEL	VERSION DESCRIPTION	PART #
FOXBOX Tx VGA/YUV MM	Multimode - Transmitter	60-1058-11
FOXBOX Tx VGA/YUV SM	Singlemode - Transmitter	60-1058-12