

Specifications

FOX 500 Rx

NOTE: The FOX 500 Rx is a receiver with one or two fiber optic cables linking it to a transmitter.

NOTE: The analog RGB input signal is digitized pixel for pixel in the transmitter, sent digitally through the fiber cable, and converted back to analog RGB in the receiver.

NOTE: The analog audio signals are digitized in the transmitter, sent through the fiber cable, and converted back to analog audio in the receiver.

NOTE: This receiver is a class 1 laser product. It meets the safety regulations of IEC-60825.

Optical fiber interconnection between transmitter and receiver

Number/type..... 1 or 2 fiber optic

NOTE: Only one fiber is required to transmit video, audio, and unidirectional data. A second fiber is required to transmit return data for bidirectional control and communication.

Connectors..... 2 LC connectors

Operating distance

Singlemode 30 km (18.75 miles) with singlemode (SM) cables with an SM unit
Multimode 300 m (985') with 62.5 μ m OM1 multimode (MM) cables with an MM unit
1 km (3280') with 50 μ m OM2 multimode (MM) cables with an MM unit
2 km (6561') with 50 μ m OM3/OM4 laser optimized multimode cable with an MM unit

NOTE: Operating distance is approximate. These are typical maximum distances that may vary depending on factors such as fiber type, fiber bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.

Nominal peak wavelength 850 nm for MM units, 1310 nm for SM units

Data rate..... 4.25 Gbps

Transmission power -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

Number/signal type..... VGA-UXGA RGBHV, RGBS, RGsB, RsGsBs, or HD component

Gain..... Unity

Pixel data bit depth 8 bits per channel, 3 channels (R, G, B)

Maximum resolution..... 1600x1200 or 1080p @ 60 Hz, digitized pixel for pixel; higher resolutions up to 2048x1120, undersampled

Video output

Number/signal type.....	2 VGA-UXGA RGBHV, RGBS, RGSB, RsGsBs (follows input or can be set by user)
Connectors.....	1 x 6 female BNC and (1) female 15-pin HD
Nominal level.....	0.7 Vp-p for RGB
Minimum/maximum levels.....	0.3 V to 1.5 Vp-p
Impedance.....	75 ohms
Return loss.....	-40 dB @ 5 MHz
DC offset.....	±5 mV with input at 0 offset
Video delay.....	1-2 frames

Sync

Output type.....	RGBHV, RGBS, RGSB, RsGsBs (follows input or can be set by user)
Output level.....	TTL: 5.0 Vp-p, unterminated, on HV, for RGBHV, RGBS 0.3 Vp-p for component video (bi-level sync, unterminated) or for Gs (SOG), terminated 0.6 Vp-p for component video (tri-level sync)
Output impedance.....	75 ohms
Polarity.....	Positive or negative (follows input or can be set by user)

Audio

Gain	
Range.....	Adjustable, -18 dB to +10 dB
Default	
Captive screw connector ...	Unbalanced output: -6 dB; balanced output: 0 dB
Mini stereo jack.....	Unbalanced output: 0 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 output

Number/signal type.....	2 buffered outputs: 1 balanced stereo; 1 unbalanced stereo or 2 unbalanced mono
Connectors.....	(1) 3.5 mm captive screw connector, 5 pole (1) 3.5 mm mini stereo jack
Impedance.....	50 ohms unbalanced, 100 ohms balanced
Nominal level.....	+4 dBu (1.23 Vrms), -10 dBV (316 mVrms)
Maximum level (Hi-Z).....	>+19 dBu, unbalanced at 1% THD+N
Maximum level (600 ohm).....	>+15 dBm, unbalanced at 1% THD+N
Audio delay.....	1.5 frames

Control/remote

Serial control ports	
Control.....	1 RS-232, 3.5 mm captive screw connector, 5 pole (3 pins are used) (rear panel) 1 RS-232, 2.5 mm mini stereo jack (front panel)
Pass-through.....	1 RS-232, 3.5 mm captive screw connector, 5 pole (3 pins are used) (rear panel)
Baud rate and protocol	
Control.....	9600 baud, 8 data bits, 1 stop bit, no parity
Pass-through.....	9600 to 115,200 baud
Serial control pin configurations.....	Captive screw connectors: 1 = Tx, 2 = Rx, 3 = GND Mini stereo jack: tip = Tx, ring = Rx, sleeve = GND
Program control.....	Extron control/configuration program for Windows® Extron Simple Instruction Set (SIS™)

General

Power supply	Internal Input: 100-240 VAC, 50-60 Hz
Power consumption	10.9 watts
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Convection, vents on top and sides
Mounting	
Rack mount	Yes, with optional rack shelf kit
Furniture mount	Yes, with optional under desk mounting kit
Enclosure type	Metal
Enclosure dimensions	1.7" H x 8.7" W x 9.5" D (1U high, half rack wide) (4.3 cm H x 22.1 cm W x 24.1 cm D) (Depth excludes connectors and knobs.)
Product weight	2.3 lbs (1.0 kg) per unit, 4.6 lbs (2.1 kg) per pair
Shipping weight	4 lbs (2 kg) per unit, 8 lbs (4 kg) per pair
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety	CE, c-UL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI
Warranty	3 years parts and labor

NOTE: All nominal levels are at $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

8.1-112514-D2