

# Specifications

## FOX T/R USB Extender Plus

### USB

USB device types .....	USB 3.0, USB 2.0, USB 1.1, USB 1.0 compatible
USB traffic types .....	Low speed (1.5 Mbps), full speed (12 Mbps), high speed (480 Mbps)

### USB host – Tx units

Number/signal type.....	1 USB
Connectors .....	1 female USB type B

### Interconnection between transmitter and receiver

**NOTE:** This product supports the four types of data transfer defined by USB: bulk, control, interrupt, and isochronous transfers.

Connectors .....	2 LC
Nominal peak wavelength .....	850 nm for multimode 1310 nm for singlemode
Data rate.....	600 Mbps
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
Signal transmission distance .....	30 km (18.64 miles) with singlemode (SM) cables 300 m (985 feet) with 62.5 µm OM1 multimode (MM) cables 1 km (3280 feet) with 50 µm OM2 multimode (MM) cables 2 km (6541 feet) with 50 µm OM3/OM4 2000 MHz bandwidth laser optimized multimode cables

**NOTE:** The transmission distance varies depending on the type of cable used in the system.

### USB hub – Rx units

Number/signal type.....	(1) 4-port USB hub
Connectors .....	4 female USB type A

### General

Power supply .....	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A
Power consumption	
Transmitter	
Device .....	Singlemode: 3.3 watts Multimode: 3.2 watts
Device and power supply...	Singlemode: 4.4 watts Multimode: 4.1 watts

Receiver	
Device .....	Singlemode: 13.3 watts Multimode: 13.0 watts
Device and power supply...	Singlemode: 15.9 watts Multimode: 15.5 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, no vents
Thermal dissipation	
Transmitter	
Device .....	Singlemode: 11.3 BTU/hr Multimode: 10.7 BTU/hr
Device and power supply...	Singlemode: 14.8 BTU/hr Multimode: 13.9 BTU/hr
Receiver	
Device .....	Singlemode: 11.0 BTU/hr Multimode: 10.2 BTU/hr
Device and power supply...	Singlemode: 19.9 BTU/hr Multimode: 18.8 BTU/hr
Mounting	
Rack mount.....	Yes, with optional rack shelf or rack mounting brackets
Furniture or wall mount.....	Yes, with optional mounting kits
Enclosure type .....	Metal
Enclosure dimensions .....	1.0" H x 4.3" W x 6.0" D (quarter rack width) (2.5 cm H x 10.9 cm W x 15.2 cm D) (Depth excludes connectors.)
Product weight .....	1 lb (0.5 kg)
Shipping weight .....	2 lbs (1 kg)
Vibration .....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety .....	CE, c-UL, KCC, 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 levels are at  $\pm 10\%$ .

**NOTE:** Specifications are subject to change without notice.

8.1-020315-D3