USB Extender Series

TWISTED PAIR EXTENDER FOR USB PERIPHERALS



The USB Extender enables USB peripheral devices to be remotely located up to 450 feet (135 meters) from the host computer. The extender consists of a transmitter and receiver set that are linked together using a single, standard CAT 5/5e/6 or CAT 7 cable. The USB Extender is available in three form factors that can be mixed-and-matched for optimum integration flexibility.

- Extends USB peripherals up to 450 feet (135 meters) on standard CAT 5/5e/6 or CAT 7 cable
- Supports USB 1.0, 1.1, and 2.0 standards with data transfer rates up to 480 Mbps
- Receiver features an integrated four port hub with 5 volts, 500mA available on each port
- Port Status LEDs
- Choice of tabletop and architectural form factors
- Form factors can be mixed and matched for optimum integration flexibility
- External universal power supply included



DESCRIPTION

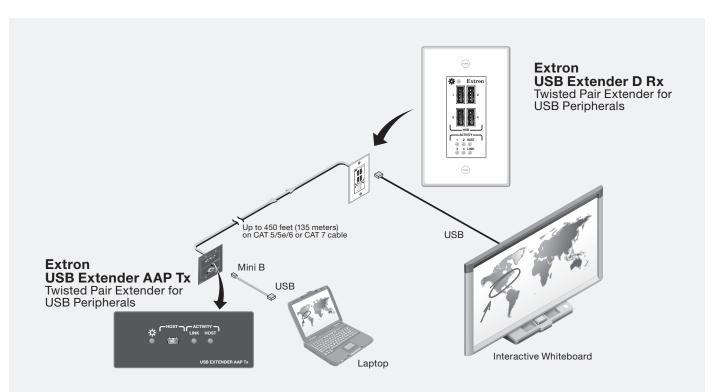
The **USB Extender Series** enables USB peripheral devices to be remotely located up to 450 feet (135 meters) from the host computer. The extender consists of a transmitter and receiver set that are linked together using a single, standard CAT 5/5e/6 or CAT 7 cable. The receiver features a built-in, active four port hub that supplies 5 Volts, 500 mA to each port to power attached devices. This allows power-hungry peripherals such as smart phones, webcams, personal media players, and mass storage devices to be connected and powered or charged at the same time. The USB Extender Series is ideal for use in applications utilizing the Extron Annotator and remote touchscreen displays, as well as for applications that require the remote location of USB peripherals such as interactive whiteboards, keyboards, mice, and other HID human interface devices.

The USB Extender Series is available in three form factors that can be mixed and matched for optimum integration flexibility. The tabletop model is housed in a compact 1" quarter rack width metal enclosure, and is ideal for desktop, under desk, lectern, or rack mounting. The USB Extender AAP – Architectural Adapter Plate model, available in black and white, fits within a double-space AAP opening and provides a convenient and elegant architectural USB connectivity solution. The USB Extender Decora model is a white, one-gang faceplate that installs in a one-gang wall box.

All models feature an external universal power supply, replacement part # 70-775-01. Transmitters can also be powered directly from the USB host port.

FEATURES

- Extends USB peripherals up to 450 feet (135 meters) on standard CAT 5/5e/6 or CAT 7 cable
- Supports USB 1.0, 1.1, and 2.0 standards with data transfer rates up to 480 Mbps – Allows high speed transfer from thumb drives and other mass storage devices.
- Receiver features an integrated four port hub with 5 Volts, 500 mA available on each port – Allows simultaneous connection to multiple peripheral devices such as the Extron Annotator, mass storage devices, keyboards, mice, or other HID – Human Interface Devices.
- Port Status LEDs provides visual indication of port activity for enumerated peripherals and all connected and active host devices.
- Choice of tabletop and architectural form factors Available in a compact 1" rack-mountable metal enclosure, an AAP - Architectural Adapter Plate, and a 1-gang Decora-style wallplate for easy integration into a variety of environments.
- Form factors can be mixed and matched for optimum integration flexibility
- External universal ENERGY STAR[®] qualified power supply included, replacement part # 70-775-01 – Provides worldwide compatibility, low power consumption, and reduced operating costs.



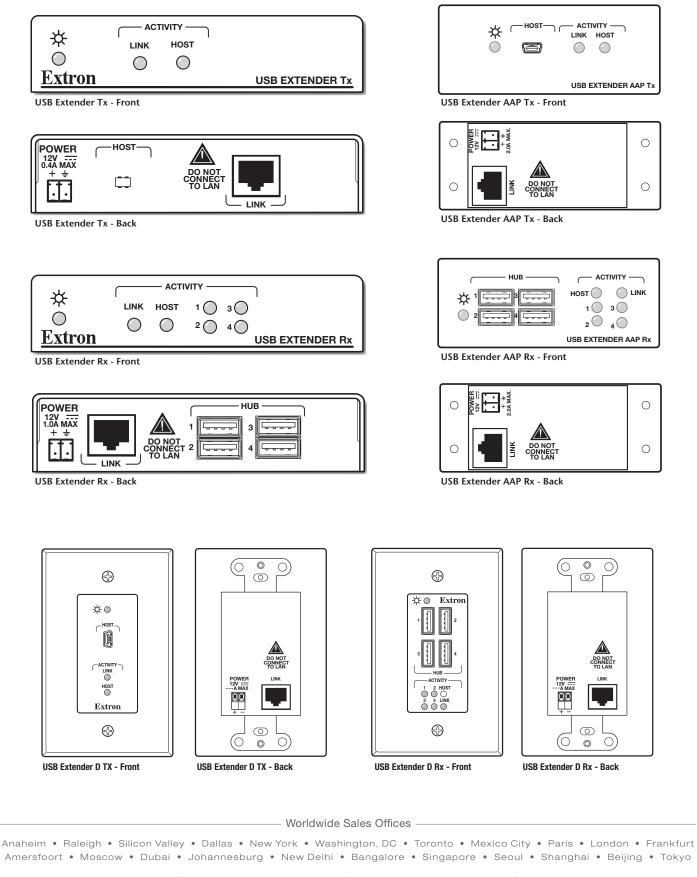
APPLICATION DIAGRAM

SPECIFICATIONS

USB	
USB standards	USB 2.0, USB 1.1, USB 1.0 compatible
USB data rates	Low speed (1.5 Mbps), full speed (12 Mbps), high speed
	(480 Mbps)
Signal transmission distance	With CAT 5/5e/6/7 cable: 450' (135 m)
USB HOST – TX UNITS	
Number/signal type	1 USB (supports USB 2.0, 1.1, 1.0 speeds)
Connectors	1 03D (supports 03D 2.0, 1.1, 1.0 speeds)
USB Extender Tx	1 female USB type B
USB Extender AAP Tx, USB Extender D Tx	1 female mini USB type B
INTERCONNECTION BETW	VEEN TRANSMITTER AND RECEIVER
Connectors	1 female RJ-45 per unit
Termination standards	TIA 568A or TIA 568B
Signal transmission distance	With CAT 5/5e/6/7 cable: 450' (135 m)
	pending 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	External
Power supply	External Input: 100-240 VAC, 50-60 Hz
	Output: 100-240 VAC, 50-60 Hz
Power input	ouput 12 100, 1 h
Transmitters	12 VDC, 0.4 A
Receivers	12 VDC, 1.0 A
Temperature/humidity	Storage: -40 to +158 $^\circ\text{F}$ (-40 to +70 $^\circ\text{C})$ / 10% to 90%,
	noncondensing
	Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%,
Cooling	noncondensing
USB Extender Tx/Rx	Convection, no vents
USB Extender AAP Tx/Rx, USB Extender D Tx	*
Mounting	
Rack mount	
USB Extender Tx/Rx	Yes, with optional rack shelf or rack mounting brackets
USB Extender AAP Tx/Rx, USB Extender D Tx	/Rx No
Furniture or wall mount	
USB Extender Tx/Rx	Yes, with optional mounting kits
USB Extender AAP Tx/Rx	Yes, with optional mounting frame or Extron product with
LICD Extender D Ty/Dy	AAP openings
USB Extender D Tx/Rx	Wall or furniture mountable in a 1 gang Decora®-style opening
Enclosure type	Metal
Enclosure dimensions	
USB Extender Tx/Rx	1.0" H x 4.3" W x 3.0" D
	(2.5 cm H x 10.9 cm W x 7.6 cm D)
	(Depth excludes connectors.)
USB Extender AAP Tx/Rx	
Faceplate	1.4" H x 3.5" W x 0.1" D
	(3.5 cm H x 8.9 cm W x 0.3 cm D) (double space AAP plate)
Device	(uouble space AAF plate) 1.4" H x 2.5" W x 1.4" D
	(3.5 cm H x 6.4 cm W x 3.6 cm D)
	(Depth excludes connectors and pigtail. Allow at least
	1.6" (4.1 cm) depth in the wall or furniture.)

USB Extender D Tx/P			
Faceplate	IA	2.6" H* x 1.3" W x 0.1" D (6.6 cm H*	x 3.3 cm W x
laoopiato		0.3 cm D)	
		(Fits the opening in a 1 gang Decora®	-style wallplate.)
		*Overall height is 4.1" (10.4 cm) inclu	
Device		1.4" H x 2.5" W x 1.4" D	
		(3.5 cm H x 6.4 cm W x 3.6 cm D)	
		(Depth excludes connectors and pigtai	I. Allow at least
		1.6" (4.1 cm) depth in the wall or furn	
Product weight		0.25 lbs (0.1 kg)	laion
Shipping weight		1 lb (<1 kg)	
Vibration		ISTA 1A in carton (International Safe Tr	ansit Association)
Regulatory complia	ince		
Safety		CE, c-UL, UL	
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI Class A		ass A
Environmental		Complies with the appropriate requirements of RoHS,	
		WEEE	
MTBF		30,000 hours	
Warranty		3 years parts and labor	
NOTE: All nominal	levels are at ±10%.		
Model	Version Description		Part number
USB Extender Tx	Transmitter		60-871-12
USB Extender Rx	Receiver		60-871-72
	K Transmitter - AAP Version		60-870-12
USB Extender AAP To	K Transmitter - AAP Version	n - White	60-870-13
USB Extender AAP Rx Receiver - AAP Version - Black			60-870-72
USB Extender AAP Rx Receiver - AAP Version - White		60-870-73	
	Transmitter - Decora Ver		60-1252-63
USB Extender D Rx	Receiver - Decora Versio	on - White	60-1252-73
Optional Accessorie			
Model	Version Description		Part number
RSF 123	Rack Shelf Kit for 3.5 in		60-190-20
RSB 123 RSU 126	Basic Rack Shelf for 3.5 inch deep products		60-604-20 60-190-10
RSU 120	Universal Rack Shelf for 6 inch deep products Universal Rack Shelf for 9.5 inch deep products		60-190-01
PMK 100			70-217-01
PMK 200			70-212-01
PMK 300	Projector Mount Kit	, i i 2 main main producto	70-374-03
PMK 350	Low profile Projector M	ount Kit	70-563-03
ZipClip™ 200	Qty. 10 mounting clips	and accessories	101-001-01

PANEL DRAWINGS



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