Specifications

USB Extender Plus T/R Series

USB host support
xHCI (USB 3.0), EHCI (USB 2.0), OHCI/UHCI (USB 1.1)

USB data rates
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

USB hub — Rx units
- Number/signal type: (1) 4-port USB hub
- Connectors: 4 female USB type A

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: 1 female RJ-45 per unit
- Termination standards: TIA 568B
- Signal transmission distance:
  - Point to point: Up to 330’ (100 m)
  - Over the network: Up to 1980’ (600 m)**

NOTE: **Over the network distance is through connection of up to five network switches.

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

Network
- Protocol: Ethernet
- Transport: TCP/IP, UDP
- All supported: IPv4, IPv6, UDP, SSL, DHCP, HTTP, HTTPS, RTP, RTSP, SNMP, SNMP V2 (RFC 1213), SNMP V3 SNTP/NTP, SAP (RFC 2974), SDP (RFC 4566), QoS (RFC 2474), NTPv4 (RFC 4330), IGMP, Unicast or Multicast
- Standards: IEEE 802.3u (100Base-T), IEEE 802.3ab (1000Base-T)
- IP Configuration: Static IP (default) or DHCP

General — USB Extender Plus T/R

Power supply: External
- Transmitter: Input: 100-240 VAC, 50-60 Hz
  - Output: 12 VDC, 0.5 A
- Receiver: Input: 100-240 VAC, 50-60 Hz
  - Output: 12 VDC, 1.5 A

Power consumption
- Transmitter: 2.5 watts
  - Device and power supply: 3.4 watts
- Receiver: 12.4 watts
  - Device and power supply: 14.9 watts
### Enclosure type
Metal

### Enclosure dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB Extender Plus Rack Mount</td>
<td>1.0” H x 4.3” W x 6.0” D (quarter rack width) (25 mm H x 109 mm W x 152 mm D) (Depth excludes connectors.)</td>
</tr>
<tr>
<td>USB Extender Plus AAP Faceplate</td>
<td>1.4” H x 3.5” W x 0.1” D (36 mm H x 89 mm W x 2.5 mm D)</td>
</tr>
<tr>
<td>Device</td>
<td>1.4” H x 2.7” W x 1.8” D (36 mm H x 69 mm W x 46 mm D)</td>
</tr>
<tr>
<td>USB Extender Plus D Faceplate</td>
<td>2.6” H x 1.3” W x 0.1” D (66 mm H x 33 mm W x 2.5 mm D)</td>
</tr>
<tr>
<td>Device</td>
<td>2.7” H x 1.7” W x 1.6” D (69 mm H x 43 mm W x 41 mm D)</td>
</tr>
</tbody>
</table>

### Vibration
ISTA 1A in carton (International Safe Transit Association)

### Regulatory compliance
CE, c-UL, KCC, C-tick, FCC Class A, ICES, RoHS, VCCI Class AUL, WEEE

### Warranty
3 years parts and labor

### USB Plus Matrix Controller

#### Memory
- **SDRAM**: 512 MB
- **Flash**: 512 MB

#### Ethernet control
- **Network interface controllers (NICs)**: 1
- **Connectors**: 1 female RJ-45 connector
- **Data rate**: 10/100/1000Base-T, half/full duplex with autodetect
- **Protocols**: DHCP, DNS, HTTP, HTTPS, ICMP, NTP, SFTP, SMTP, SNMP, SSH, TCP/IP, UDP/IP
- **Default settings**:
  - Link speed and duplex level = autodetected
  - IP address = 192.168.254.250
  - Subnet mask = 255.255.255.0
  - Gateway = 0.0.0.0
  - DHCP = off
  - DNS: 127.0.0.1

#### Serial control
- **Quantity/type**: 1 bidirectional RS-232
- **Connectors**: (1) 3.5 mm captive screw connector, 5 pole
- **Baud rate and protocol**: 300 to 115200 baud (9600 baud = default); 8 (default) or 7 data bits; 1 (default) or 2 stop bits; no parity (default), even, or odd parity

### General — USB Plus Matrix Controller

#### Power supply
- **External**
  - Input: 100-240 VAC, 50-60 Hz
  - Output: 12 VDC, 1 A, 12 watts
- **Power input requirements**: 12 VDC, 1 A, 12 watts, max.
  - Or power over Ethernet (PoE) (complies with PoE 802.3af, class 3)
- **Power consumption**
  - Device: 1.5 watts, 12 VDC
  - Device and power supply: 2.0 watts, 100-240 VAC, 50-60 Hz
- **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
- Device: 5.2 BTU/hr
- Device and power supply: 6.8 BTU/hr

Mounting
- Rack mount: Yes, with optional 1U rack shelf or back of the rack mounting kit
- Furniture mount: Yes, with optional bracket kit

Enclosure type: Metal

Enclosure dimensions: 1.0" H x 4.3" W x 6.0" D (1U high, quarter rack wide)
- (25 mm H x 109 mm W x 152 mm D)
- (Depth excludes connectors.)

Product weight: 0.6 lbs (0.3 kg)

Regulatory compliance: CE, c-UL, UL, C-tick, FCC Class A, ICES, KCC, RoHS, WEEE, VCCI

Warranty: 3 years parts and labor

**NOTE:** All nominal levels are at ±10%.

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

**NOTE:** Shipping weights and dimensions are available at [www.extron.com](http://www.extron.com).