



## EXT3-XR-TR

4K60 4:4:4 HDMI Extender with USB, Ethernet, RS-232, & IR over Extended-Reach HDBaseT 3.0

| HDMI | Ethernet - RJ-45 | HDBaseT  
| 4K/60 UHD (4:4:4)



EXT3-XR-TR is a high-performance, extended-reach HDBaseT 3.0 extender for 4K60Hz (4:4:4) HDMI, USB, Ethernet, RS-232, and IR signals over twisted pair, flexibly set as transmitter-side or receiver-side device. EXT3-XR-TR transmitter-side converts all input signals into the transmitted HDBaseT 3.0 signal. EXT3-XR-TR receiver-side receives the HDBaseT 3.0 signal and converts it back into the original input signals. It extends video signals to up 100m (330ft) over CAT copper cables at up to 4K@60Hz (4:4:4) video resolution

## FEATURES

**High Performance Standard Extender** - Professional HDBaseT extender for providing extended-reach signals over twisted-pair copper infrastructures. EXT3-XR-TR is a standard extender that can be connected to any market-available HDBaseT-compliant extension product. For optimum extension reach and performance, use recommended Kramer cables

**HDMI Signal Extension** - HDCP 2.3, EDID and CEC signals are passed through from the source to the display. Supports HDR10, deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D as specified in HDMI 2.0

**HDMI Mirroring** - Transmitter-side extender mirrors input HDMI signal to loop output port for connecting a local monitor or an additional unit in a daisy chain

**Flexible USB 2.0 Extension** - An active USB host is connected to the extender at either the transmitter or receiver sides. USB 2.0 signals are extended between the extender transmitter and receiver sides, enabling connection of the active USB host to both local and remote USB devices, such as camera and audio devices, or HID (Human Interface Devices) mouse or keyboard devices

**Multi-channel Audio Transmission** - Up to 32 channels of digital stereo uncompressed signals for supporting studio-grade surround sound

**Ethernet Extension** - Ethernet interface data flows in both directions, allowing extension of up to 1 Gbps Ethernet connectivity for LAN communication and device control

**Bidirectional RS-232 Extension** - Serial interface data flows in both directions, allowing data transmission and device control

**Bidirectional Infrared Extension** - IR interface data flows in both directions, allowing remote control of peripheral devices located at either end of the extended line

**Cost-effective Maintenance** - Status LED indicators for HDMI, Loop, HDBT, and USB active host ports, facilitate easy local maintenance and troubleshooting

**Easy and Elegant Installation** - MegaTOOLS™ fan-less enclosure for dropped-ceiling mounting, or side-by-side mounting of 2 units in a 1U rack space with the recommended rack adapter



## TECHNICAL SPECIFICATIONS

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Inputs	TRANSMITTER-SIDE INPUTS 1 HDMI: On a HDMI female connector RECEIVER-SIDE INPUTS 1 HDBT: On an RJ-45 female connector
Outputs	TRANSMITTER-SIDE OUTPUTS 1 HDBT: On an RJ-45 female connector 1 LOOP: On a HDMI female connector RECEIVER-SIDE OUTPUTS 1 HDMI: On a HDMI female connector
Ports	1 USB 2.0 Host: On a USB-B female connector  3 USB 2.0 Device: On USB type-A female connectors  1 1000BaseT Ethernet: On an RJ-45 female connector for LAN extension  1 IR: On a 3.5mm mini jack for IR link extension  1 RS-232: On a 3-pin terminal block for serial link extension
USB Features	Integrated USB Hubs 1
Extension Line	Up to 100m (330ft) at 4k@60hz (4:4:4)  Up to 100m (330ft) at 1080p@60hz  Note: When using Kramer HDBaseT cables  Standards Compliance: HDBaseT 3.0
Video	Max Data Rate: 18Gbps bandwidth (6Gbps per graphic channel)  Max Resolution: 4K@60Hz (4:4:4) 24bpp resolution  Content Protection: HDCP 2.3  HDMI Support: 4K as specified in HDMI 2.0b
Extended USB	Data Rate: Up to 480Mbps  Transmitted Data Bandwidth: Up to 300Mbps  Standards Compliance: 1.1 and 2.0 USB
Extended Ethernet	Max Data Rate: 1 Gbps
Extended RS-232	Baud Rate: 300 to 115200
Power	Source: 12V DC, 5A  Consumption: 3.2A  USB Device Charging Max Total Current: 2A
Enclosure	Size: Mega Tools  Material: Aluminum  Cooling: Convection ventilation
Environmental Conditions	Operating Temperature: 0° to +40°C (32° to 104°F)  Storage Temperature: -40° to +70°C (-40° to 158°F)

Humidity: 10% to 90%, RHL non-condensing

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

Regulatory  
Compliance  
(Standards  
Compliance)

Safety: CE

Environmental: RoHs and WEEE

Accessories

Included: Power adapter, bracket, rubber feet

Product Dimensions 19.00cm x 11.60cm x 2.70cm (7.48" x 4.57" x 1.06" ) W, D, H

Product Weight 0.6kg (1.2lbs) approx

Shipping Dimensions 34.50cm x 16.50cm x 5.20cm (13.58" x 6.50" x 2.05" ) W, D, H

Shipping Weight 1.2kg (2.5lbs) approx

