EvertzAV is a division within Evertz Microsystems exclusively focused on offering the most complete end-to-end AV distribution and visualization solutions for the professional AV industry.



Key Features

• HDBaseT certified.



- Space saving slim appearance and easy-to-install.
- Supports HDMI input and output up to 15 meters when used with standard HDMI cables.
- Supports HD signal transmission up to 328 feet (100 meters) for 1080p@60Hz (4:4:4 8-bit) and 230 ft (70 meters) for 4K@60Hz (4:2:0 8-bit) via a single Ethernet cable.
- Single Ethernet cable solution, including the transmission of HD audio/video, IR, RS-232, Ethernet and electrical power.
- Supports HDMI 1.4a and HDCP 2.2/1.4 compliant.
- 12V DC or Power over Ethernet (PoE). The EV-RS4K-2 is a PSE while the EV-TS4K-2 is a PD.

Extend HDMI Signals over Long Distances

The EV-RS4K-2 receiver and EV-TS4K-2 transmitter are a pair of HDMI extenders used to extend HDMI signals up to 328 feet (100 meters) for 1080p@60Hz (4:4:4 8-bit) and 230 ft (70 meters) for 4K@60Hz (4:2:0 8-bit) over a single Ethernet cable. The HDMI extenders are ideal for applications such as homes, offices, digital entertainment centers, control centers, conference rooms, schools, and any environment that requires the distribution of an HDMI source signal to a single HDMI display over long distances.

Multiple Power and Control Options

Connecting a single power supply to the the EV-RS4K-2 receiver can power both the EV-RS4K-2 and EV-TS4K-2 as the devices support PoE (Power over Ethernet). But, each device provides a power connector for use with the included power supply units if required. Additionally, the HDMI extenders offer IR and RS-232 control. You can control the source from the display location or control the display from the source location via the IR pass-through function, and with RS-232 pass-through over a single Ethernet cable, the HDMI extenders offer control and firmware upgrading via RS-232.

HDBaseT: The Worldwide One-Cable Standard

EvertzAV, a member of the HDBaseT Alliance, is proud to develop and introduce more and more devices with HDBaseT technology. HDBaseT has become the technology of choice for the professional AV industry due to its versatility, performance, simplicity, and stability compared to conventional UTP transmission. The EV-RS4K-2 and EV-TS4K-2 HDBaseT-certified extenders are extremely robust devices that can instantly open up a whole new world of use case possibilities for your professional HDBaseT-compatible AV devices. For more information on the HDBaseT standard , please visit the HDBaseT website @ https://hdbaset.org.





av.evertz.com

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EV-RS4K-2/EV-TS4K-2 4K HDMI Extenders (HDBaseT Receiver and Transmitter)

Specifications	EV-RS4K-2 Receiver	EV-TS4K-2 Transmitter
Input	1 x HDBaseT	1 x HDMI
Input Signal Type	HDBaseT	HDMI 1.4a, HDCP 2.2/1.4
Input Resolution Support	800x600 ¹ , 1024x768 ¹ , 1280x720 ¹ , 1280x768 ¹ , 1280x800 ¹ , 1280x960 ¹ , 1280x1024 ¹ , 1360x768 ¹ , 1366x768 ¹ , 1440x900 ¹ , 1600x900 ¹ , 1600x1200 ¹ , 1680x1050 ¹ , 1920x1080 ¹ , 1920x1200 ¹ , 2560x1440 ¹ , 2560x1600 ¹ , 3840x2160p ¹ ¹ / ¹ / ¹ / ¹ / ² / ² , 4096x2160p ¹ / ¹ / ¹ / ¹ / ² / ² / ² / ² }, 4096x2160p ¹ / ¹ / ¹ / ¹ / ²	800x600 ¹ , 1024x768 ¹ , 1280x720 ¹ , 1280x768 ¹ , 1280x800 ¹ , 1280x960 ¹ , 1280x1024 ¹ , 1360x768 ¹ , 1366x768 ¹ , 1440x900 ¹ , 1600x900 ¹ , 1600x1200 ¹ , 1680x1050 ¹ , 1920x1080 ¹ , 1920x1200 ¹ , 2560x1440 ¹ , 2560x1600 ¹ , 3840x2160p ¹ (VCbCr 4:20 only1234, 4096x2160p ¹ (VCbCr 4:20 only1234, Note: ¹ = 60Hz, ² = 24Hz, ³ = 25Hz, ⁴ = 30Hz Chroma Subsampling: RCB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0 Color Depth: 8 bits
Input Video Level	0.5-1.2 V p-p	0.5-1.2 V p-p
Input DDC Signal	5 V p-p	5 V p-p
		1 x HDBaseT
Output		
Output Signal Type	HDMI 1.4a, HDCP 2.2/1.4	
Output Resolution Support	800x600 ¹ , 1024x768 ¹ , 1280x720 ¹ , 1280x768 ¹ , 1280x800 ¹ , 1280x960 ¹ , 1280x1024 ¹ , 1360x768 ¹ , 1366x768 ¹ , 1440x900 ¹ , 1600x900 ¹ , 1600x1200 ¹ , 1680x1050 ¹ , 1920x1080 ¹ , 1920x1200 ¹ , 2560x1440 ¹ , 2560x1600 ¹ , 3840x2160p ¹ (YCbCr 4:20 only)23.4, 4096x2160p ¹ (YCbCr 4:20 only)23.4 Note: ¹ = 60Hz, ² = 24Hz, ³ = 25Hz, ⁴ = 30Hz	800x600 ¹ , 1024x768 ¹ , 1280x720 ¹ , 1280x768 ¹ , 1280x800 ¹ , 1280x960 ¹ , 1280x1024 ¹ , 1360x768 ¹ , 1366x768 ¹ , 1440x900 ¹ , 1600x900 ¹ , 1600x1220 ¹ , 1680x1050 ¹ , 1920x1080 ¹ , 1920x1200 ¹ , 2560x1440 ¹ , 2560x1600 ¹ , 3840x2160p ¹ (Vcbcr420 only1234, 4096x2160p ¹ (Vcbcr420 only1234 Note: ¹ = 60Hz, ² = 24Hz, ³ = 25Hz, ⁴ = 30Hz
	Chroma Subsampling: RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0 Color Depth: 8 bits	Chroma Subsampling: RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0 Color Depth: 8 bits
Video Impedance	100 Ω	100 Ω
Maximum Pixel Clock	297 MHz	297 MHz
Audio Format Support	HDMI: Stereo, PCM 5.1 /7.1; Dolby True HD, DTS DTS-HD Master Audio	HDMI: Stereo, PCM 5.1 /7.1; Dolby True HD, DTS DTS-HD Master Audio
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C), 10% ~ 90%, non-condensing	32°F ~ 113°F (0°C ~ 45°C), 10% ~ 90%, non-condensing
Storage Temperature	-4°F ~ 140°F (-20°C ~ 70°C), 10% ~ 90%, non-condensing	-4°F ~ 140°F (-20°C ~ 70°C), 10% ~ 90%, non-condensing
Power Supply	12 VDC 2.0A (for each power connector) Note: Also supports PoE (the EV-RS4K-2 is a PSE)	12 VDC 2.0A (for each power connector) Note: Also supports PoE (the EV-TS4K-2 is a PD)
Power Consumption	≤11.8 W (pair)	≤11.8 W (pair)
ESD Protection	Human-body model: • ±8 kV (Air-gap discharge) • ±4 kV (Contact discharge)	Human-body model: • ±8 kV (Air-gap discharge) • ±4 kV (Contact discharge)
Surge Protection	Voltage: $\pm 1 \text{ kV}$ (Ten times respectively for the positive and negative voltage)	Voltage: $\pm 1~\text{kV}$ (Ten times respectively for the positive and negative voltage)
Electrical Fast Transient/Burst	Data communication cord: 1 kV Power cord : 2 kV	Data communication cord: 1 kV Power cord : 2 kV
Cable Specifications	Cat 5e/6: 328ft (100m) for 1080p@60Hz 36 bpp. Cat 5e/6: 230ft (70m) for 1080p@60Hz 48 bpp, 1080p@60Hz 3D, and 4K@60Hz (4:2:0 8-bit). Cat6a/7: 328ft (100m) for 1080p@60Hz 48 bpp, 1080p@60Hz 3D, and 4K@60Hz (4:2:0 8-bit). Note: EvertzAV recommends using straight-through T568B Ethernet cables.	Cat 5e/6: 328ft (100m) for 1080p@60Hz 36 bpp. Cat 5e/6: 230ft (70m) for 1080p@60Hz 48 bpp, 1080p@60Hz 3D, and 4K@60Hz (4:2:0 8-bit). Cat6a/7: 328ft (100m) for 1080p@60Hz 48 bpp, 1080p@60Hz 3D, and 4K@60Hz (4:2:0 8-bit). Note: EvertzAV recommends using straight-through T568B Ethernet cables.
Product Weight	0.88lbs (400g)	0.88lbs (400g)
Case Dimension (W x H x D)	12.2in x 3.0in' x 7.1in (310 mm x 76 mm x 180 mm)	12.2in x 3.0in' x 7.1in (310 mm x 76 mm x 180 mm)
Product Dimension (W x H x D)	6.77in x 0.71in x 3.7in (172 mm ×18 mm × 94 mm) Note: Depth excludes connectors.	6.77in x 0.71in x 3.7in (172 mm ×18 mm × 94 mm) Note: Depth excludes connectors.

Ordering Information

EV-RS4K-2	Standalone 4K HDMI extender, HDBaseT receiver
EV-TS4K-2	Standalone 4K HDMI extender, HDBaseT transmitter

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