EV-TW4K-1
HDBaseT 2.0 Wall Plate Transmitter

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

- Provides one HDMI input, one VGA input, one analog audio input for VGA audio. and one analog audio input for pass-through to an HDBaseT receiver.
- Using a Cat 6/6a/7 cable, HDBaseT output is supported at distances up to 328ft (100m) at 1080p@60Hz (4:4:4 8-bit) and 4K@60Hz (4:2:0 8-bit).
- Using a Cat 5e cable, HDBaseT output is supported at distances up to 328ft (100m) at 1080p@60Hz (4:4:4 8-bit) and 295ft (90m) at 4K@60Hz (4:2:0 8-bit).
- Supports switching between VGA and HDMI inputs manually or automatically.
- Able to receive power from any HDBaseT receiver with a PSE module.

HDMI and VGA Extended over HDBaseT

The EV-TW4K-1 is a wall plate switching transmitter that includes one VGA input, one HDMI input, and one HDBaseT output. It also provides two 3.5mm analog audio inputs: one for VGA audio embedding and the other for pass-through over HDBaseT.

Interoperable with the EV-RS4K-2 HDMI Receiver

The EV-TW4K-1 transmitter is designed to work with an HDBaseT receiver such as EvertzAV's EV-RS4K-2 to reliably extend signals up to 328ft (100m) at 1080p@60Hz

EV-RS4K-2 HDMI Receiver

(4:4:4 8-bit) and 4K@60Hz (4:2:0 8-bit) over a Cat 6a/7 cable and up to 328ft (100m) at 1080p@60Hz (4:4:4 8-bit) using Cat 5e cables. It also provides switchable modes between a USB host and device, allowing you to control a remote server or to connect an electronic whiteboard.

Multiple Switching Modes and Power Options

The EV-TW4K-1 transmitter can be the central component of a small, automated A/V system. The EV-TW4K-1 conveniently allows switching between the VGA and HDMI sources manually or automatically. With a built-in PD module, the EV-TW4K-1 is able to receive power either by an external power supply or from a connected HDBaseT receiver with a PSE module.

EV-TW4K-1 Front	EV-TW4K-1 Rear

Specifications

Video Input	1 x VGA IN 1 x HDMI IN
Video Input Signal Type	VGA HDMI 1.4a, HDCP 2.2/1.4
Video Input Resolution Support	**VGA:** 800x600[1], 1024x768[1], 1280x720[1], 1280x800[1], 1280x960[1], 1280x1024[1], 1360x768[1], 1440x900[1], 1600x900[1], 1600x1200[1], 1680x1050[1], 1920x1080[1], 1920x1200[1] **HDMI:** 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 4:2:0 only),2,3,4], 4096x2160p[1(YCbCr 4:2:0 only),2,3,4] **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
Input Video Level	0.5 ~ 1.0Vp-p
Maximum Pixel Clock	297 MHz
Video Output	1 x HDBaseT
Video Output Signal Type	HDBaseT
Video 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 4:2:0 only),2,3,4], 4096x2160p[1(YCbCr 4:2:0 only),2,3,4] **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
Video Impedance	100 Ω
Audio Input	1 x unbalanced stereo 3.5mm mini jack, embedded with VGA input 1 x extra unbalanced stereo 3.5mm mini jack
Supported Audio Format	**HDMI:** Stereo, PCM 5.1/7.1; Dolby True HD, DTS-HD Master Audio **Unbalanced Mini Jack:** Stereo
Cable Specifications	Cat 5e: 295ft (90m) for 4K@60Hz (4:2:0 8 bit) Cat 5e: 328ft (100m) for 1080p@60 Hz (4:4:4 8 bit) Cat 6/6a/7: 328ft (100m) for 4K@60Hz (4:2:0 8 bit) and 1080p@60 Hz (4:4:4 8 bit) **Note:** EvertzAV recommends using straight-through T568B Ethernet cables.
Operating Temperature	32˚F to +113˚F (0˚C to +45˚C)
Storage Temperature	-4˚F to +158˚F (-20˚C to +70˚C)
Humidity	10% to 90%, non-condensing
Power Supply	DC 12V 1A
Power Consumption	7W
ESD Protection	**Human-Body Model:** ±8kV (air-gap discharge) / ±4kV (contact discharge)
Device Dimension (W x H x D)	3.58in x 4.24in x 1.60in (91mm × 107.6mm × 40.6mm) **Note:** With panel cover included.
Weight	0.44lbs (0.20kg)

Ordering Information

EV-TW4K-1	HDBaseT 2.0 wall plate transmitter with HDMI and VGA switching inputs

av.evertz.com

Contents Subject to Change
Rev. 02

North America AV Sales
avsales@evertz.com
+1 905-335-3700

International AV Sales
avsales-int@evertz.com
+1 905-335-3700