



DATA SHEET

HDMI[®] HDBaseT + USB-B to A and RS232 over Cat Extender Single Gang Wall Plate Transmitter to Box Receiver - 4K 60Hz

Extend 4K HDMI up to 130ft over a single Cat6a network patch cable using HDBaseT technology

OVERVIEW

The HDMI HDBaseT + USB-B to A and RS232 over Cat Extender Single Gang Wall Plate Transmitter to Box Receiver - 4K 60Hz allows a 4K HDMI source to be extended up to 130ft to a 4K display using a single Cat6a Ethernet cable. This is an ideal solution where USB must also be extended alongside HDMI video and audio to interactive whiteboards and displays in conference rooms, classrooms, lecture halls, and many other installation needs far beyond the length limitations of standard HDMI cabling.

This HDBaseT kit extends HDMI and high speed USB 2.0 over a single Cat5e, Cat6, or Cat6a network patch cable. Extend 4K HDMI up to 115 feet and 1080p up to 230 feet using a Cat5e or Cat6 cable. For longer 4K distances, extend 4K HDMI up to 130 feet using a Cat6a cable. Extend USB 2.0 pass through up to 230ft, connecting up to 4 USB devices to the receiver.

This kit is HDCP 2.2 compliant, making sure that the connection from the source is secure. Multi-channel audio formats are supported, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, and DTS:X. High speed USB 2.0 pass-through supports up to 230ft for KVM control of devices such as USB cameras, keyboards, mice, etc. With one-way Power over HDBaseT (PoH) support, the transmitter gets its power from the receiver, so no additional power adapter is required, allowing for greater installation flexibility. Advanced users can control RS232 pass-through to pass RS232 commands between the wall plate and the receiver. The receiver toggle switch also allows for the selection of upgrades that can upgrade both the wall plate and receiver.

Note: Ensure a solid, reliable connection between the 4K HDMI HDBaseT Extender and critical equipment. We suggest using HDMI Cables with gripping connectors that provide greater port retention than standard HDMI connectors.

Note: Stranded Cat5e/6/6a patch cables may be used for HDMI extension applications up to 230ft. Shielded, solid conductor Cat6 or HDBaseT Certified Cat6a network cabling is recommended for applications where the category cable must be coiled, is run near other high-frequency signaling cables, or in high EMI/RFI environments. For best performance use an [category/hdbaset/hdbaset-cat6a-cables](#) HDBaseT Certified Cat6a Patch Cable.

FEATURES

- Extend 4K at 60Hz (4:2:0) up to 130ft and 1080p at 60Hz up to 230ft with Cat 6a cable
- Extend 4K at 60Hz (4:2:0) up to 115ft and 1080p at 60Hz up to 200ft with Cat 5e/6 cable
- HDCP 2.2 compliant, to create a secure connection between the source and display
- Supports multi-channel audio formats, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X
- Supports EDID from the HDMI out
- Supports CEC pass-through, allowing central control to all HDMI compatible devices
- Supports USB 2.0 pass through over HDBT up to 230ft, connecting up to 4 USB devices to the receiver
- Supports one-way Power over HDBaseT (PoH), so that the wall plate can be powered by receiver
- RS232 pass through mode can pass the RS232 command between wall plate and receiver
- Toggle Switch (receiver only) used to select RS232 port function - RS232 pass through or upgrade
- Upgrade mode can update both wall plate and receiver
- HDBaseT Chipset VS210, for simpler HDBaseT installations

ITEM DESCRIPTION

C2G30030 HDMI HDBaseT + USB-B to A and RS232 over Cat Extender Single Gang Wall Plate Transmitter to Box Receiver - 4K 60Hz

SIGNAL SPECIFICATIONS

- Chipset: VS210TX-A1 LFBGA-356; VS210RX-A1 HSBGA-484

Transmitter

- Input/Output Ports: 1 x HDMI IN; 1 x HDBT OUT; 1 x RS232; 1 x USB Host; 1 x DC 12V IN; 1 x DIP Switch
- Input Signal Type: HDMI 1.4 with 4K @ 60Hz 4:2:0 8bit, HDCP 2.2
- Audio Format: HDMI IN: Supports multi-channel audio formats, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X
- Maximum Data Rate: 10.2Gbps
- USB Pass-through: USB 2.0
- USB Port Type: USB-B

Receiver

- Input/Output Ports: 1 x HDBT IN; 1 x HDMI OUT; 1 x RS232; 4 x USB Devices; 1 x DC 12V IN; 1 x DIP Switch
- Output Signal Type: HDMI 1.4 with 4K @ 60Hz 4:2:0 8bit, HDCP 2.2
- Audio Format: HDMI Out: Supports multi-channel audio formats, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X
- Audio Out: Stereo

TRANSMISSION DISTANCE

- Cat 6a/7 cable, extends 4Kx2K@60Hz (4:2:0) signal up to 40m/130ft and 1080P@60Hz signal up to 70m/230ft
- Cat 5e/6 cable, extends 4Kx2K@60Hz (4:2:0) signal up to 35m/115ft and 1080P@60Hz signal up to 60m/200ft
- USB 2.0 pass through up to 230ft, connecting up to 4 USB devices to the receiver

ELECTRICAL SPECIFICATIONS

- Power Supply: One-way Power over HDBaseT (PoH) support, the transmitter gets its power from the receiver

PHYSICAL SPECIFICATIONS

- Operating Temperature: 0°C to 45°C (32°F to 113°F)
- Storage Temperature: -20°C to 70°C (-4°F to 158°F)
- Humidity: 10% to 90%, Non-Condensing
- ESD Protection: Human-body Model: ±8kV (Air-gap discharge) / ±4kV (Contact discharge)

PHYSICAL CHARACTERISTICS

Transmitter

- Device Dimension (W x H x D): 136.4mm x 15.2mm x 74.2mm / 5.37" x 0.60" x 2.92"
- Product Weight: 0.26kg / 0.57lb

Receiver

- Device Dimension (W x H x D): 230mm x 25mm x 90.2mm / 9.06" x 0.98" x 3.55"
- Product Weight: 0.61kg / 1.34lb



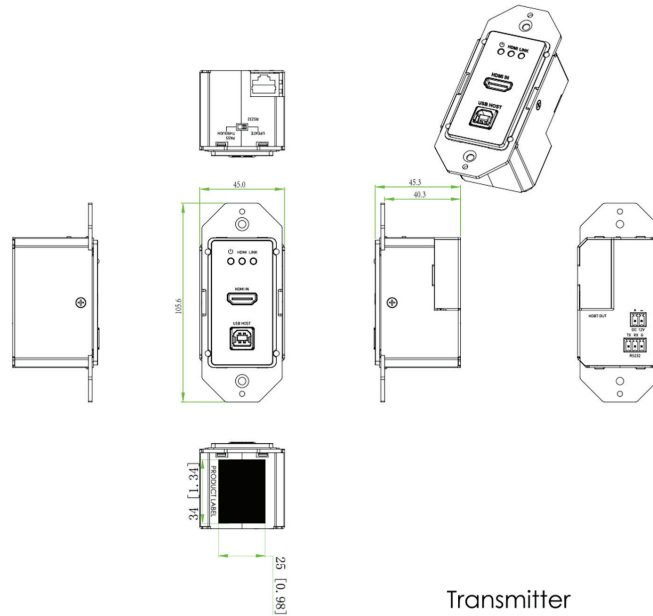
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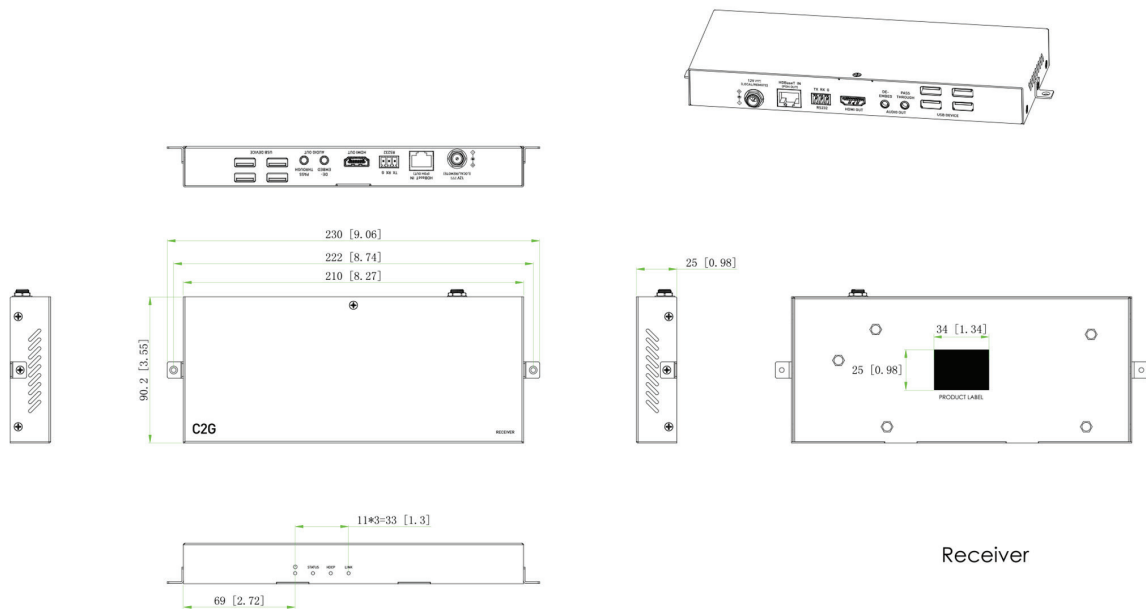
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Transmitter



Receiver



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