



DATA SHEET

HDMI® HDBaseT + USB-B 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

HDMI HDBaseT + USB-B 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 (4:4:4) up to 130ft and 1080p at 60Hz up to 230ft with Cat 6a cable
- Extend 4K at 60Hz (4:4:4) 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

C2G30024 HDMI HDBaseT + USB-B 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 (2-Pin Phoenix Connector); 1 x DIP Switch
- Input Video Signal: HDMI 2.0 with 4K @ 60Hz 4:4:4 8bit, HDCP 2.2
- Audio Format: HDMI IN: Supports multi-channel audio formats, including PCM 7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X
- Audio In: Stereo
- USB Pass-through: USB 2.0
- USB Port Type: USB-B
- Maximum Pixel Clock: 600Mhz
- Maximum Data Rate: 18Gbps
- Support Valens DSC technology, when the signal rate exceeds 10.2Gbps, DSC technology will be used for 2:1 compression and transmission, and decompression will be performed on the receiver side

Receiver

- Input/Output Ports: 1 x HDBT IN; 1 x HDMI OUT; 1 x RS232; 4 x USB Devices; 1 x DC 12V IN (with Locking); 1 x DIP Switch
- Output Signal Type: HDBT 2.0
- Audio Format: HDMI Out: Supports multi-channel audio formats, including PCM 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 (4:4:4) signal up to 40m/130ft and 1080P@60Hz signal up to 70m/230ft
- Cat 5e cable, extends 4Kx2K@60Hz (4:4:4) 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 POH, the TX can be powered by the RX
- Power Supply: DC 12V 3A
- Power Consumption (Max): 18W

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): 45mm x 105.6mm x 45.3mm / 1.77" x 4.16" x 1.78"
- Product Weight: 0.20kg / 0.44lb

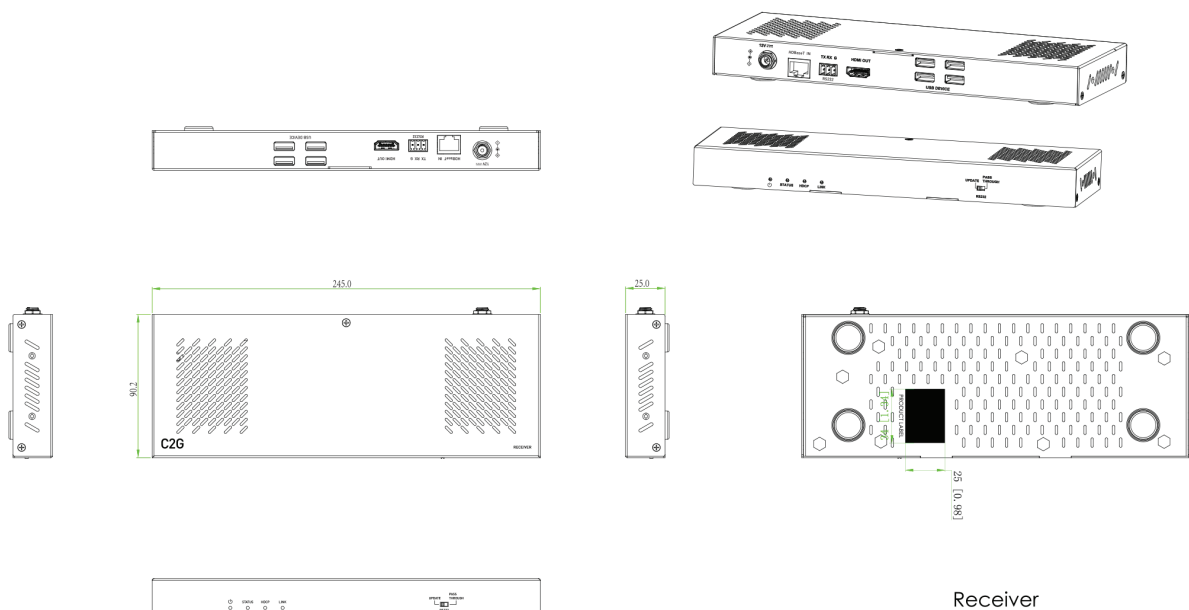
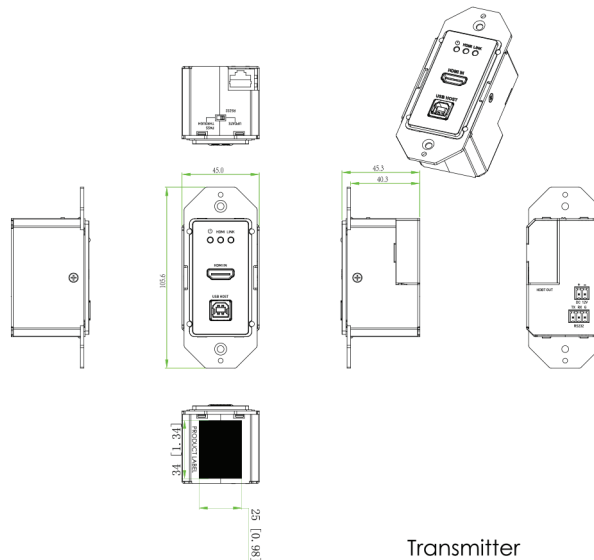
Receiver

- Device Dimension (W x H x D): 245mm x 25mm x 90.2mm / 9.64" x 0.98" x 3.55"
- Product Weight: 0.61kg / 1.34lb

SIMPLIFIED CONNECTIVITY

USA 800.506.9607 | c2g.com | legrandav.com | customer-service@c2g.com

EMEA +31 495 580 840 | c2g.com/uk | legrandav.com | c2g.emea@av.legrand.com



LEGRAND | AV COMMERCIAL BRANDS
C2G | Chief | Da-Lite | Luxul | Middle Atlantic | Vaddio | Wiremold

SIMPLIFIED CONNECTIVITY

USA 800.506.9607 | c2g.com | legrandav.com | customer-service@c2g.com

EMEA +31 495 580 840 | c2g.com/uk | legrandav.com | c2g.emea@av.legrand.com

©2021 Legrand AV Inc. 210591 Rev A 9/21 C2G is a registered trademark of Legrand AV Inc. All other brand names or marks are used for identification purposes and are trademarks of their respective owners. All patents are protected under existing designations. Other patents pending.