



DATA SHEET

HDMI® HDBaseT + RS232 and IR over Cat Extender Single Gang Wall Plate Transmitter - 4K 60Hz

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

OVERVIEW

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

This transmitter extends HDMI 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.

This HDMI HDBaseT transmitter is HDCP 2.2 compliant, ensuring that the source and display connection 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. With one-way Power over Cable (PoC) 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.

This HDBaseT transmitter works with C2G30015 and C2G30016 receivers.

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 and connected receiver has EDID limitation function
- Supports CEC pass-through, allowing central control to all HDMI compatible devices
- One-way IR pass through from the TX to the connected RX
- One-way Power over Cable (PoC), powered by the receiver
- Supports RS232 pass-through via HDBT port
- HDBaseT Chipset VS010, for simpler HDBaseT installations
- Works with C2G30015 and C2G30016 receivers

ITEM DESCRIPTION

C2G30021 HDMI HDBaseT + RS232 and IR over Cat Extender Single Gang Wall Plate Transmitter - 4K 60Hz

SIGNAL SPECIFICATIONS

- Chipset: VS010TX LBGA-196
- Input/Output Ports: 1 x HDMI IN; 1 x HDBT OUT; 1 x RS232; 1 x IR IN; 1 x DC 12V IN (2-Pin Phoenix Connector)
- 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
- Audio In: Stereo
- Maximum Pixel Clock: 340Mhz
- Maximum Data Rate: 10.2Gbps

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 cable, extends 4Kx2K@60Hz (4:2:0) signal up to 35m/115ft and 1080P@60Hz signal up to 60m/200ft

ELECTRICAL SPECIFICATIONS

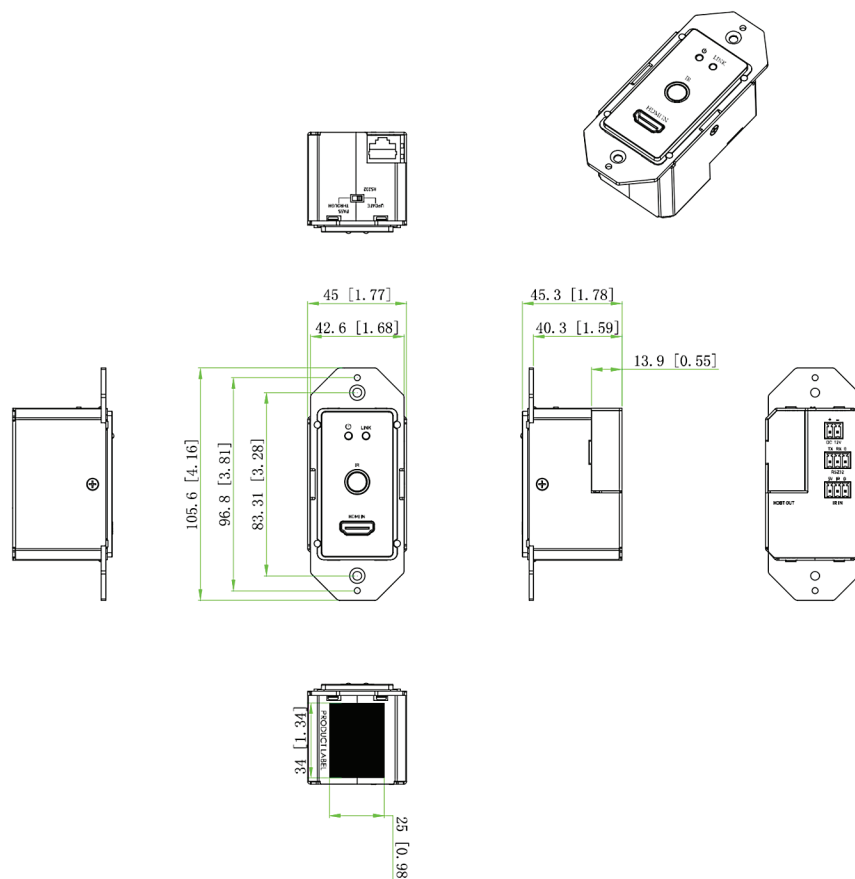
- Power Supply: One-way PoC, the TX is powered by the RX
- Power Supply: DC 12V 1A
- Power Consumption (Max): 8.01W

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

- Device Dimension (W x H x D): 45mm x 105.6mm x 45.3mm / 1.77" x 4.16" x 1.78"
- Product Weight: 0.18kg / 0.4lb



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SIMPLIFIED CONNECTIVITY

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