



DATA SHEET

Dual 4K HDMI® HDBaseT + USB-C®, 3.5mm, and USB-B over Cat Extender Dual Gang Wall Plate Transmitter – 4K 60Hz

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

OVERVIEW

The Dual 4K HDMI HDBaseT + USB-C (USB-C 3.1 Gen2 for video), 3.5mm, and USB-B (for data) over Cat Extender Dual Gang Wall Plate Transmitter - 4K 60Hz connects to a receiver to allow dual 4K HDMI sources to be extended up to 130ft to a 4K display using a single Cat6a Ethernet cable. This is an ideal solution where USB must be extended alongside HDMI video and audio to interactive whiteboards and displays in conference rooms, classrooms, lecture halls, and many other installation needs that are far beyond the length limitations of standard HDMI cabling.

The transmitter extends HDMI, USB-C, and high speed USB 2.0 signals over a single Cat5e, Cat6 or Cat6a network patch cable. Extend dual 4K HDMI or USB-C up to 115 feet and 1080p up to 230 feet using a Cat5e or Cat6 cable. For longer 4K distances, extend 4K HDMI or USB-C up to 130 feet using a Cat6a cable.

This HDMI HDBaseT transmitter is HDCP 2.2 compliant, making sure that the connection between the source and display is secure. Automatic switching is supported, connecting to the last active source. Additional analog audio input pass-through allows for audio distribution to the receiver side. High-speed USB 2.0 pass through is supported over HDBaseT up to 230ft for KVM control of devices such as USB cameras, keyboards, mice, etc. With PoH support, the receiver can send power to the wall plate, so no additional power adapter is required, allowing for greater flexibility in installations. Advanced users can control the transmitter via API command through the Micro USB port on transmitter or the RS232 port on 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 three times 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 a Cat6 Solid Shielded Patch Cable or an HDBaseT Certified Cat6a Patch Cable.

ITEM DESCRIPTION

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C2G30019	Dual 4K HDMI® HDBaseT + USB-C®, 3.5mm, and USB-B over Cat Extender Dual Gang Wall Plate Transmitter – 4K 60Hz

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 automatic switching, following the last-in-first-out rule
- Additional analog audio input pass-through allows for audio distribution to the receiver side
- Supports USB 2.0 pass through over HDBT up to 230ft
- One-way Power over HDBaseT (PoH), so that the wall plate can be powered by receiver
- The transmitter supports firmware upgrade and device control via the Micro USB port
- HDBaseT Chipset VS210, for simpler HDBaseT installations

SIGNAL SPECIFICATIONS

- Chipset: VS210
- Video Input: 2 x HDMI; 1 x USB-C
- Input Video Signal: HDMI (4K@60Hz YUV 4:2:0, HDCP 2.2), USB-C DP Alt mode
- Video Output: 1 x HDBT OUT (RJ-45)
- Output Video Signal: HDBT 2.0
- Audio Input: 2 x HDMI; 1 x USB-C; 1 x Audio In (Unbalanced stereo 3.5mm)
- Audio formats: HDMI / USB-C: 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
- USB Pass-through: USB 2.0
- USB Port Type: USB-B
- Maximum Pixel Clock: 340Mhz
- Maximum Data Rate: 10.2 Gbps
- Control Method: Auto switching, front panel buttons, API commands

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

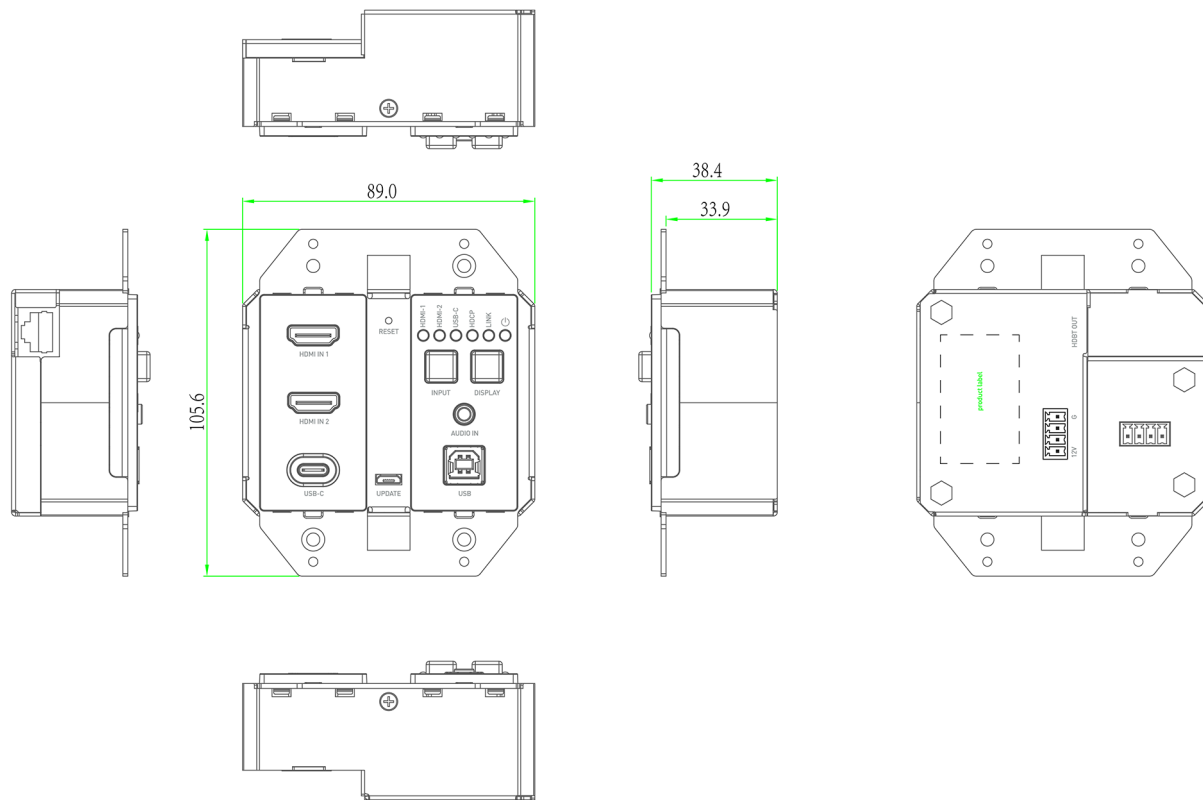
- Power Supply: PoH, powered by receiver; or local power supply through the 12V phoenix connector
- Power Consumption (Max): 7.8W

PHYSICAL SPECIFICATIONS

- Port Connections: (1) USB-B Female (for data), (1) 3.5mm Female, (1) USB-C Female (USB 3.1 Gen2 for video), (2) HDMI Female, (1) RJ-45 Female, (1) USB Micro-B Female
- 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): 89mm x 38.4mm x 105.6mm / 3.5" x 1.51" x 4.16"
- Product Weight: 0.3kg / 0.66lb



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