C2G
HDMI® HDBaseT + USB-C®, 3.5mm, and USB-B to A over Cat Extender Wall Plate Transmitter to Box Receiver - 4K 60Hz
Part No. CG-C2G31011

The HDMI HDBaseT + USB-C [USB 3.1 Gen2 for video], 3.5mm, and USB-B to A [for data] over Cat Extender Dual 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 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 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 Extender is HDCP 2.2 compliant, making sure that the connection between the source and display is secure. Automatic switching is supported by the transmitter, connecting to the last active source. One-way analog audio pass through is supported from the transmitter to the receiver. 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 transmitter, so no additional power adapter is required, allowing for greater flexibility in installations. Support this HDBaseT system that is already deployed in the field by upgrading firmware through the Micro-USB port on front panel of the wall plate transmitter, and upgrade the firmware through the RS232 port on rear panel of the 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 HDBaseT Certified Cat6a Patch Cable.

Additional Technical Specs

Transmitter

- Chipset: VS210
- Video Input: 1 x HDMI; 1 x USB-C (Video Only, Data and Power Delivery not supported through USB-C port)
- 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: 1 x HDMI; 1 x USB-C; 1 x Audio In (Unbalanced stereo 3.5mm)
- Audio Format: 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: 10.2Gbps
- Control Method: Auto switching, front panel buttons, API commands

Receiver

- Chipset: VS210
- Video Input: 1 x HDBT IN (RJ-45)
- Input Video Signal: HDBT 2.0
- Video Output: 1 x HDMI OUT

- Output Video Signal: HDMI (4K@60Hz YUV 4:2:0), HDCP 2.2
- Input Video Level: 0.5~1.0V p-p
- Maximum Pixel Clock: 340MHz
- 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
- USB-A Port Amperage: 1.4A max on top 2 USB-A ports; 0.6A max on bottom 2 USB-A ports

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

Transmitter

- Power Supply: Can be powered by the connected receiver or local power supply through the 12V phoenix connector
- Power Consumption (Max): 7.8W

Receiver

- Power Supply: DC 12V 3A
- Power Consumption (Max): 9W

- Power Consumption (Max): 8W

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)

Transmitter

- 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

Receiver

- Device Dimension (W x H x D): 210mm x 25mm x 90.2mm / 8.27" x 0.98" x 3.55"
- Product Weight: 0.46kg / 1.01lbs

Features & Benefits

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	HDBaseT Chipset VS210, for simpler HDBaseT installations
The Transmitter supports automatic switching, following the last-in-first-out rule	One-way analog audio pass through from wall-plate transmitter to receiver
Supports USB 2.0 pass through over HDBT up to 230ft, connecting up to 4 USB devices to the receiver	Supports CEC switch command sent by wall-plate
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

Specifications

General Info

Product Line	C2G	Color	White
UPC Number	757120310112	Country Of Origin	China
Features	RS232	Application Sector	Commercial
Warranty Type	5-Year	Type	Active Device, HDBaseT, Receiver, Transmitter

Dimensions

Product Width US	8.27 in	Product Depth US	3.55 in
Product Height US	0.98 in		

Listing Agencies / 3rd Party Agencies

CE Certified	Yes	FCC Compliant	Yes
REACH Compliant	Yes		

Technical Information

Video Resolution	1080p, 1080p 60Hz, 4K, 4K 30Hz, 4K 60Hz	Data Transfer Rate	10.2 Gbps
Adapter Rear	USB-A Female, DC Power Plug, HDMI Female, USB-A Female, RJ-45 Female, USB-A Female, USB-A Female, 3.5mm Female, 3.5mm Female	Adapter Front	USB-C Female, 3.5mm Female, RJ-45 Female, USB-B Female, USB Micro-B Female, HDMI Female
Operating Temperature	0°-45°C	Storage Temperature	-20° - 70° C