C2G

HDMI® HDBaseT + 3.5mm, USB-B to A, and RS232 over Cat Extender Box Transmitter to Box Receiver - 4K 60Hz
Part No. CG-C2G31013

The HDMI HDBaseT + 3.5mm, USB-B to A, and RS232 over Cat Extender Box 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 and high speed USB 2.0 signals 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 or 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. 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 transmitter sends power to both, the transmitter and the receiver, 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 RS232 port.

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.

Signal Specifications

- Chipset: VS210TX-A1 LFBGA-356, VS210RX-A1 HSBGA-484
- Firmware Version: VS210: V7.4.34

Transmitter

- Input/Output Ports: 1 x HDMI IN: 1 x HDBT OUT; 1 x RS232; 1 x AUDIO IN; 1 x AUDIO OUT; 1 x USB HOST (Type-B); 1 x DC 12V IN
- Input Signal Type: HDMI 1.4 with 4K @ 60Hz 4:2:0 8bit, HDCP 2.2
- Output Signal Type: HDBT 2.0
- 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
- USB Pass-through: USB 2.0
- USB Port Type: USB-B
- Maximum Pixel Clock: 340Mhz
- Maximum Data Rate: 10.2Gbps

Receiver

- Input / Output Ports: 1 x HDBT IN; 1 x HDMI OUT; 1 x RS232; 2 x AUDIO OUT (One for De-embed and another one for Pass-through); 4 x USB DEVICE (Type-A), 1 x DC 12V IN
- Input Signal Type: HDBT 2.0
- Output Signal Type: HDMI 1.4 with 4K @ 60Hz 4:2:0 8bit, 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

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 POH, only one power adapter is needed to connect to TX to power both TX and RX
- Power Supply: DC 12V 3A
- Power Consumption (Max): 19W

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): 210mm x 25mm x 90.2mm / 8.27¨ x 0.98¨ x 3.55¨¨
- Product Weight: 0.44kg / 0.97lb

Receiver

- Device Dimension (W x H x D): 210mm x 25mm x 90.2mm / 8.27¨ x 0.98¨ x 3.55¨
- Product Weight: 0.48kg / 1.06lbs¨

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

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

Specifications

General Info

Product Line	C2G	Color	Black
UPC Number	757120310136	Country Of Origin	China
Features	RS232	Application Sector	Commercial
Warranty Type	5-Year	Type	Active Device, Extender, HDBaseT, Receiver, Transmitter

Dimensions

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

Listing Agencies / 3rd Party Agencies

CE Certified	Yes	FCC Compliant	Yes
REACH Compliant	Yes		

Technical Information

Video Resolution	1080p, 1080p 60Hz, 4K 30Hz, 4K 60Hz	Data Transfer Rate	10.2 Gbps
Adapter Rear	USB-A Female, USB-A Female, USB-A Female, DC Power Plug, USB-A Female, 3.5mm Female, 3.5mm Female, RJ45 Female, HDMI Female	Adapter Front	3.5mm Female, 3.5mm Female, RJ45 Female, HDMI Female, USB-B Female, DC Power Plug
Operating Temperature	0°-45°C	Storage Temperature	-20° - 70° C