



DATA SHEET

HDMI® HDBaseT + RS232 and IR over Cat Extender Box Scaling Receiver - 4K 60Hz

Extend 4K HDMI up to 328ft over a single Cat6a network patch cable using HDBaseT technology

OVERVIEW

The HDMI HDBaseT + RS232 and IR over Cat Extender Box Scaling Receiver - 4K 60Hz allows a 4K HDMI source to be extended up to 328ft to a 4K display using a single Cat6a Ethernet cable. This is an ideal solution where HDMI video and audio need to be extended to displays in conference rooms, classrooms, lecture halls, and many other installation needs that are far beyond the length limitations of standard HDMI cabling.

This scaling receiver accepts HDMI signals over a single network patch cable. Extend 4K HDMI up to 230 feet and 1080p up to 328 feet using a Cat5e or Cat6 cable. For longer 4K distances, extend 4K HDMI up to 328 feet using a Cat6a cable.

This HDMI HDBaseT receiver is HDCP 2.2 compliant, making sure that the connection from the source is secure. The S/PDIF output allows for the de-embedding of a connected audio device. One-way PoC provides power to the transmitter with PD module via Cat cable, so no additional power adapter is required, allowing for greater flexibility in installations. The USB Micro-B input supports necessary firmware updates. Advanced users can control bi-directional IR and device control through the RS232 port. The RS232 controller has pre-loaded power on/off/standby commands and auto trigger for the display device.

This HDBaseT receiver works with C2G30014, C2G30017, and C2G30018 transmitters.

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. 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.

FEATURES

- Extend 4K at 30Hz (4:4:4) up to 328ft with Cat 6a cable
- Extend 4K at 30Hz (4:4:4) up to 230ft and 1080p at 60Hz up to 328ft with Cat 5e/6 cable
- Supports scaling resolution configuration for the HDMI output through DIP Switch and API commands
- Built-in scaler supports up to 4K at 60Hz
- HDCP 2.2 compliant, to create a secure connection between the source and display
- Audio de-embedded output with S/PDIF and analog stereo options from HDMI signal
- RS232 port available for device control or bi-directional RS232 pass-through (default setting)
- Supports bi-directional IR pass-through
- One-way PoC to provide power to the transmitter with PD module via Cat cable
- Supports firmware upgrade via the Micro USB port (for scaler only)
- HDBaseT Chipset VS100, for simpler HDBaseT installations
- Works with C2G30014, C2G30017, and C2G30018 transmitters

ITEM DESCRIPTION

C2G30016 HDMI HDBaseT + RS232 and IR over Cat Extender Box Scaling Receiver - 4K 60Hz

SIGNAL SPECIFICATIONS

- Chipset: VS100RX-A1 LPGA-268, MSD6488EVEZ1(MSD6A828EVC-Z1-ST) BGA-954, MST4032H1 EPLQFP-80, LCMXO2-2000HC-4TG100C TQFP-100
- Input/Output Ports: 1 x HDMI OUT; 1 x HDBT IN; RS232; 1 x IR IN; 1 x IR OUT; S/PDIF OUT; AUDIO OUT; 1 x DC 12V IN
- Output Video Signal: HDMI 2.0
- Built-in scaler supports up to 4K at 60Hz and HDCP 2.2 compliant
- 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 Input: HDBaseT: PCM 2.0
- Audio Output: HDMI: PCM 2.0; S/PDIF Out: PCM 2.0; Analog Audio Out: PCM 2.0
- Maximum Input Data Rate: 10.2Gbps
- Maximum Output Data Rate: 18Gbps
- Supports bi-directional IR and RS232 pass-through

Transmission Distance

- Cat 6a/7 cable, extends 4Kx2K@30Hz (4:4:4) signal up to 100m/328ft and 1080P@60Hz signal up to 100m/328ft
- Cat 5e/6 cable, extends 4Kx2K@30Hz (4:4:4) signal up to 70m/230ft and 1080P@60Hz signal up to 100m/328ft

ELECTRICAL SPECIFICATIONS

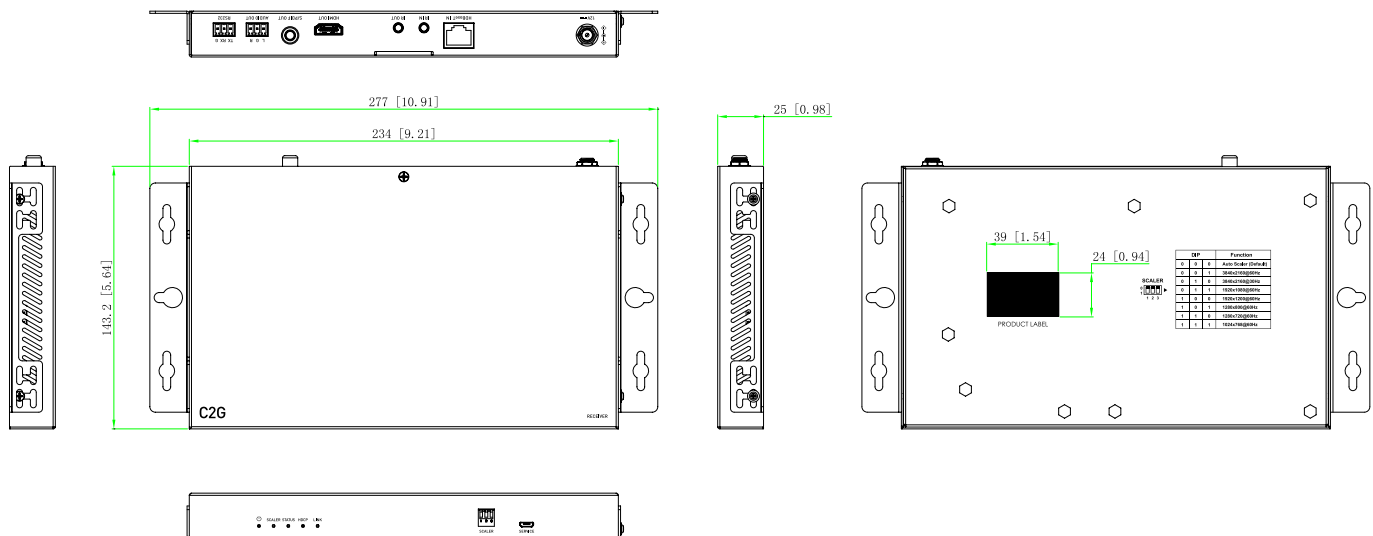
- Power Supply: One-way PoC to provide power to the transmitter with PD module via Cat cable
- Power Supply: DC 12V 3A
- Power Consumption (Max): 17.4W (when used with C2G30018)

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): 234mm x 25mm x 143.2mm / 9.21" x 0.98" x 5.64"
- Product Weight: 0.91kg / 2lbs



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