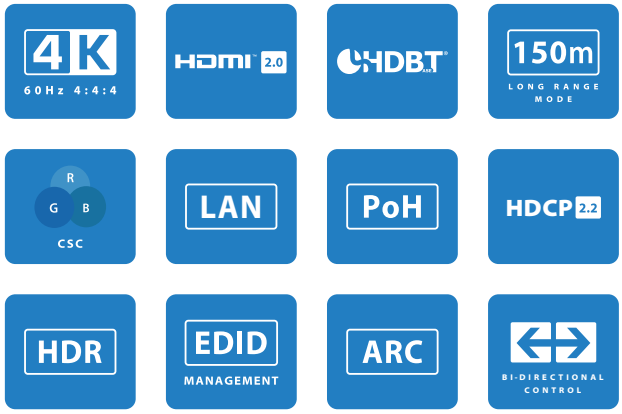
HEX150CS-KIT

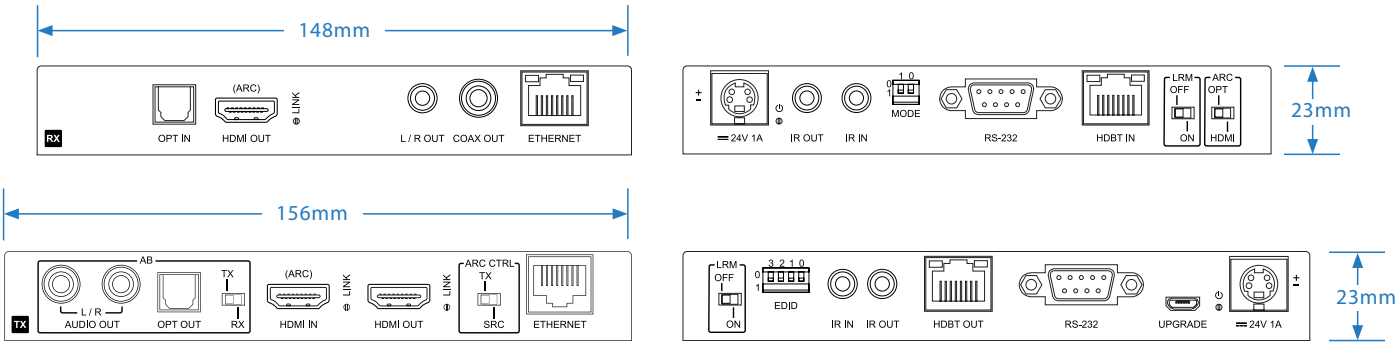
BLUSTREAM

Long Range HDBaseT™ CSC Extender Kit

Description

Our Platinum Range of HDBaseT™ products offer the very best in performance and flexibility. The HEX150CS-KIT extender set is an industry leading HDMI 2.0 4K 60Hz 4:4:4 HDCP 2.2 HDBaseT™ solution utilising CSC technology with video down conversion. The HEX150CS-KIT supports HDMI, bi-directional IR, RS-232 and PoH (PoE) up to lengths of 150m over a single CAT cable. The HEX150CS-KIT also provides enhanced features including ARC via HDMI or optical (S/PDIF) and Ethernet pass through.

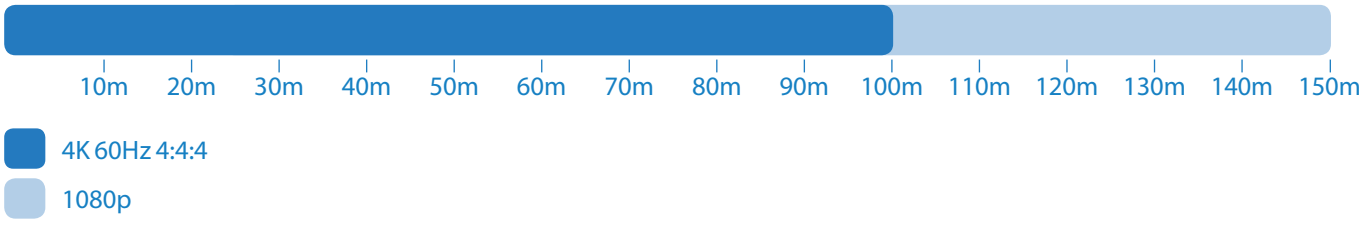




Key Features

- Advanced HDBaseT™ technology offering distribution of video and audio over a single CAT cable
- Advanced Colour Space Conversion (CSC) supports HDMI 2.0 18Gbps specification including HDR support
- Video down-conversion on outputs allowing a display only capable of supporting lower video resolutions (4K 60Hz 4:2:0 or 1080p) to receive 4K 60Hz 4:4:4 or 4K 60Hz 4:2:0 video content while still showing maximum original 4K UHD resolution on remaining video outputs
- Supports 4K 60Hz 4:4:4 UHD video up to 100m
- Extends HDMI 1080p video up to 150m (HDBaseT™ long-reach mode)
- Supports all industry standard video resolutions including VGA-WUXGA and 480i-4K
- HDMI re-clocking on the HDBaseT™ Receiver to help solve HDMI HDCP, compatibility, and handshaking issues
- Supports ARC (Audio Return Channel) from display via HDMI and optical digital inputs
- Supports audio return to HDMI, optical digital, and analogue L/R audio outputs (analogue output supports 2ch PCM only)
- Supports all known HDMI audio formats including Dolby TrueHD, Atmos and DTS-HD Master Audio transmission
- Bi-directional 10/100BaseT Ethernet pass through
- Bi-directional IR & RS-232 pass through
- Supplied with Blustream 5V IR receiver and emitter
- Bi-directional PoH (Power over HDBaseT™) to power extenders from either transmitter or receiver end
- Advanced EDID management
- HDCP 2.2 support

Transmission Distance via Cat6



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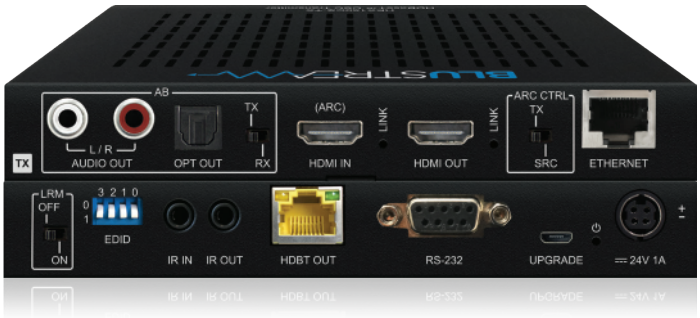

HEX150CS-TX Transmitter

- Video Input Connectors: 1 x HDMI Type A, female
- Video Output Connectors: 1 x HDBaseT™ RJ45 connector
- Audio Output Connectors: 2 x RCA (L/R), 1x Optical (SPDIF)
- Ethernet port: 1 x RJ45 connector
- RS-232 serial port: 1 x DB-9 female
- IR Input ports: 1 x 3.5mm stereo jack
- IR Output ports: 1 x 3.5mm mono jack
- EDID: 4-PIN DIP switch
- Power Supply: 1 x 24V/1A DC, 4-PIN DIN connector

HEX150CS-RX Receiver

- Video Input Connectors: 1 x HDBaseT™ RJ45 connector
- Video Output Connectors: 1 x HDMI Type A, female
- Audio Input Connectors:1 x Optical (SPDIF)
- Ethernet port: 1 x RJ45 connector
- RS-232 serial port: 1 x DB-9 female
- IR Input ports: 1 x 3.5mm stereo jack
- IR Output ports: 1 x 3.5mm mono jack
- Power Supply: 1 x 24V/1A DC, 4-PIN DIN connector

Specifications

- Transmitter Dimensions (W x D x H): 156mm x 123mm x 23mm
- Receiver Dimensions (W x D x H): 148mm x 134mm x 23mm
- Shipping Weight:1.6kg
- Operating Temperature: 32°F to 104°F (0°C to 40°C)
- Storage Temperature : -4°F to 140°F (-20°C to 60°C)

Included Accessories

IR Accessories	1 x IRE, 1 x IRR
Rack Mount	Mounting brackets
Power Supply	24V/1A DC, 4-PIN DIN

Regulatory Compliance

RoHS Compliant CAN ICES-3 (B)/NMB-3(B)

Colour Space Conversion (CSC) Technology in HDBaseT™

Due to the data rate of HDBaseT™ technology being capped at 10.2Gbps, it is unable to pass the latest native 4K UHD resolutions of 4K 60Hz 4:4:4. There is now a requirement to integrate vido resolutions with data speeds up to 18Gbps accross a multi-zone AV environment. Blustream have implemented CSC (Colour Space Conversion) technology into our latest products to ensure 4K HDR signals can now be supported over the 10.2Gbps infrastructure of HDBaseT™*.

Colour Space Conversion reduces the data rate of the HDMI signal by converting the colour space (or Wide Colour Gamut) from 4:4:4 or 4:2:2 to a lower format. Within Colour Space Conversion technology the native resolution, frame rate and colour depth all remain constant from end to end. The only part of the signal that is converted during transmission is the colour gamut.

*Blustream CSC products do not support HDR10+ or Dolby Vision due to the way these specific variations of HDR are encoded. These codecs transmit repeated metadata packets throughout the transmission of any media making it impossible at this stage to convert in the same way using CSC technology.

Blustream cannot be held responsible for errors in typography or photography. Specifications are subject to change without notice.