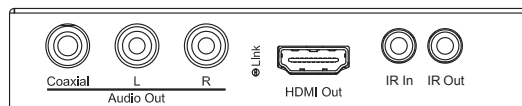
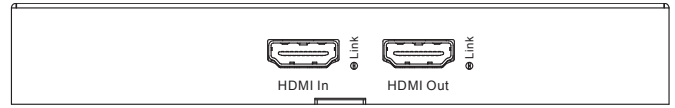
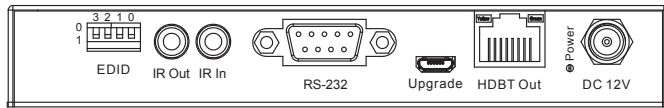


HEX100CS-KIT

Quick Reference Guide



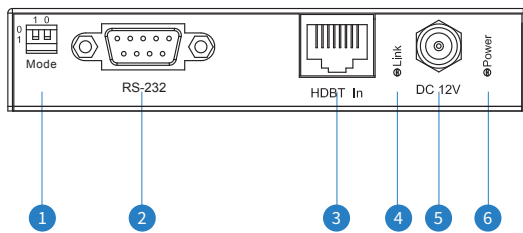
Introduction

Our HEX100CS-KIT HDMI 2.0 4K 60Hz 4:4:4 (18Gbps) HDCP 2.2 HDBaseT™ extender set offers market leading features and outstanding value utilising CSC technology. The product extends HDMI, Bi-directional IR & RS-232 and Bi-directional PoH (PoE) up to lengths of 100m (4K 70m). The Transmitter includes a HDMI loop-out for integrating local displays or cascading to multiple devices. The Receiver features simultaneous analogue stereo and digital coax audio breakout.

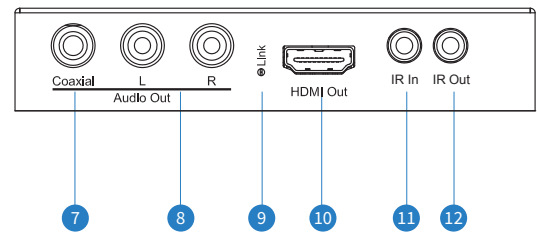
FEATURES:

- Advanced HDBaseT™ technology offering distribution of video and audio over a single CAT cable
- Advanced Color Space Conversion (CSC) supports HDMI 2.0 18Gbps specification including HDR
- Supports 4K 60Hz 4:4:4 UHD video up to 70m
- Extends HDMI 1080P video up to 100m
- Features 1x HDMI loop-out on HEX100CS-TX for integrating local displays or cascading to multiple devices
- Supports all industry standard video resolutions including VGA-WUXGA and 480i-4K
- Supports all known HDMI audio formats including Dolby TrueHD, Atmos and DTS-HD Master Audio transmission
- HDMI re-clocking on the HDBaseT™ Receiver to help solve HDMI HDCP, compatibility and handshaking issues
- HDMI audio breakout to analogue L/R audio and coaxial digital outputs concurrently
- Supports bi-directional RS-232 pass through
- Supports bi-directional IR pass through
- Supplied with Blustream 5V IR receiver and emitter
- Advanced EDID management
- HDCP 2.2 Support

Panel Description HEX100CS-RX

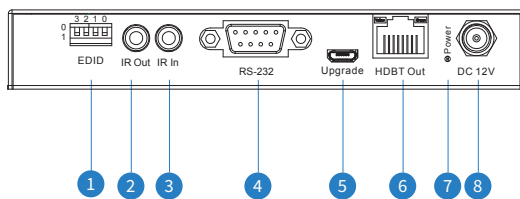


- ❶ Mode dip-switch - To switch RS-232 serial port between pass-through and firmware update mode
- ❷ RS-232 / serial connector
- ❸ HDBaseT input
- ❹ HDBaseT signal link indicator
- ❺ DC 12V screw type connector
- ❻ Power status indicator

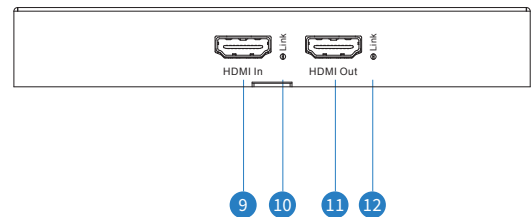


- ❷ Coaxial digital output - de-embedded from HDMI input
- ❸ Analogue audio Left/Right output (3.5mm stereo jack de-embedded from HDMI input. Supports stereo 2CH PCM audio only
- ❹ HDMI signal link indicator
- ❺ HDMI Output
- ❻ IR IN (to Blustream 5V 3.5mm IR receiver)
- ❼ IR OUT (to Blustream 5V 3.5mm IR emitter)

Panel Description HEX100CS-TX



- ❶ EDID DIP switch (UP=0, DOWN=1)
- ❷ IR OUT (to Blustream 5V 3.5mm IR emitter)
- ❸ IR IN (to Blustream 5V 3.5mm IR receiver)
- ❹ RS-232 / Serial connector
- ❺ USB Upgrade port - For future use
- ❻ HDBaseT output
- ❼ Power status indicator
- ❽ DC 12V screw type connector



- ❹ HDMI input
- ❺ HDMI link indicator
- ❻ HDMI output
- ❼ HDMI link indicator

Understanding the Transmitter/Receiver status lights

The Blustream HEX100CS-KIT extender solutions include status LED indicators on both the Transmitter and Receiver products to show all connections are active and to help diagnose possible problems.

Receiver:

- The HDMI signal link light will be off when there is no connection with a display/sink
- The HDMI link light will be on when there is an active connection with a display
- The HDBaseT link light will be off when there is no CAT cable/active HDBaseT connection on the RJ45 HDBaseT input
- The HDBaseT link light will blink if there is an unstable connection between the Transmitter and Receiver
- The HDBaseT link light will be lit when a CAT cable is connected to the HDBaseT RJ45 output on the Transmitter and an active connection is achieved with the Receiver.

Transmitter:

- The Input HDMI signal link light will be off when there is no connection with a source device
- The Output HDMI signal link light will be off when there is no connection with a display/sink
- The Input HDMI link light will be on when there is an active connection with a source device
- The Output HDMI link light will be on when there is an active connection with a display/sink
- The HDBaseT link light will be off when there is no CAT cable/active HDBaseT connection on the RJ45 HDBaseT output
- The HDBaseT link light will blink if there is an unstable connection between the Transmitter and Receiver
- The HDBaseT link light will be lit when a CAT cable is connected to the HDBaseT RJ45 output on the Transmitter and an active connection is achieved with the Receiver

EDID Control

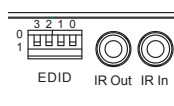
EDID (Extended Display Identification Data) is a data structure that is used between a display and a source. This data is used by the source to find out what audio and video resolutions are supported by the display. By pre-determining the video resolution and audio format of the source and display device you can reduce the time needed for EDID hand shaking thus making switching quicker and more reliable.

Configuration of extender EDID settings can be achieved using the product dip-switches on the end of the HEX100CS-TX. EDID dip-switch settings are shown below.

Global EDID settings

Dip-switch position '0' = Off

Dip-switch position '1' = On



EDID Dip-switches

[DIP]=0000: HDMI 1080p@60Hz, Audio 2ch PCM

[DIP]=0001: HDMI 1080p@60Hz, Audio 5.1ch PCM/DTS/DOLBY

[DIP]=0010: HDMI 1080p@60Hz, Audio 7.1ch PCM/DTS/DOLBY/HD

[DIP]=0011: HDMI 1080i@60Hz, Audio 2ch PCM

[DIP]=0100: HDMI 1080i@60Hz, Audio 5.1ch PCM/DTS/DOLBY

[DIP]=0101: HDMI 1080i@60Hz, Audio 7.1ch PCM/DTS/DOLBY/HD

[DIP]=0110: HDMI 4K@60Hz 4:2:0+4K@30Hz 4:4:4, Audio 2ch PCM

[DIP]=0111: HDMI 4K@60Hz 4:2:0+4K@30Hz 4:4:4, Audio 5.1ch PCM/DTS/DOLBY

[DIP]=1000: HDMI 4K@60Hz 4:2:0+4K@30Hz 4:4:4, Audio 7.1ch PCM/DTS/DOLBY/HD

[DIP]=1001: HDMI 4K@60Hz 4:4:4, Audio 2ch PCM

[DIP]=1010: HDMI 4K@60Hz 4:4:4, Audio 5.1ch PCM/DTS/DOLBY

[DIP]=1011: HDMI 4K@60Hz 4:4:4, Audio 7.1ch PCM/DTS/DOLBY/HD

[DIP]=1100: DVI 1280x1024@60Hz, Audio None

[DIP]=1101: DVI 1920x1080@60Hz, Audio None

[DIP]=1110: DVI 1920x1200@60Hz, Audio None

[DIP]=1111: Software Control EDID

Specifications

HEX100CS-TX

- Video input: 1x HDMI Type A, female
- Video output: 1x HDBaseT RJ45 connector
- 1x HDMI Type A, female
- RS-232 serial port: 1x DB9 female connector
- IR input: 1x 3.5mm stereo jack
- IR output: 1x 3.5mm mono jack
- EDID DIP switch: 4-pin
- Mounting kit included
- Dimensions excl connections (W x D x H): 143mm x 134mm x 22mm
- Shipping weight (Kit): 0.5 kg
- Power: 12V/2A DC, screw type connector
- Operating temperature: 32°F to 104°F (0°C to 40°C)
- Storage temperature: -4°F to 140°F (-20°C to 60°C)

HEX100CS-RX

- Video input: 1x HDBaseT RJ45 connector
- Video output: 1x HDMI Type A, female
- Audio output: 1x 3.5mm L/R analogue audio & 1x digital coaxial (RCA)
- RS-232 serial port: 1x DB9 female connector
- IR input: 1x 3.5mm stereo jack
- IR output: 1x 3.5mm mono jack
- Mounting kit included
- Dimensions excl connections (W x D x H): 113mm x 124mm x 22mm
- Shipping weight (Kit): 0.4 kg
- Power: 12V/2A DC, screw type connector
- Operating temperature: 32°F to 104°F (0°C to 40°C)
- Storage temperature: -4°F to 140°F (-20°C to 60°C)

NOTE: Specifications are subject to change without notice. Weights and dimensions are approximate.

Package Contents

HEX100CS-KIT

- 1 x HEX100CS-TX and 1 x HEX100CS-RX
- 1 x 12V/2A DC power supply
- 1 x IR emitter (IRE)
- 1 x IR receiver (IRR)
- 2 x Mounting bracket sets
- 1 x Quick reference guide

HEX100CS-RX (when sold individually)

- 1 x HEX100CS-RX
- 1 x Mounting bracket set

Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.

For the full Blustream HEX100CS-KIT User Manual please visit the dealer resource area of our website www.blustream.co.uk