

SC-EXT8K-100M

EXTENDER

Model Number:#2308262055



Features

- HDMI 2.0b and HDCP 2.3, HDCP2.2 and HDCP1.x compliant
- Support HDBaseT
- Video resolution up to 8K@60Hz RGB/YCbCr 4:4:4
- Video bandwidth is up to 48Gbps FRL and 18Gbps TMDS
- HDMI™ 2.1 protocols : VRR, ALLM, QMS, QFT, SBTM are supported
- Signal transmission distance can be extended up to 328ft / 100m via CAT5E/6/6A/7 cable
- Supports USB 2.0 data and device extension
- Supports bi-directional IR and RS-232 pass-through
- Supports CEC pass-through
- Supports LPCM, Dolby Digital/Plus/EX, Dolby TrueHD and Dolby Atmos
- Supports DTS, DTS-EX, DTS 96/24, DTS High Resolution Audio, DTS-HD Master Audio and DTS:X
- Supports audio de-embedding on the receiver
- Advanced EDID management
- Supports HDR, HDR10, HDR10+, Dolby Vision and HLG pass-through
- Supports bi-directional PoC (Power over Cable)
- Compact design for easy and flexible installation
- 24/7 stability and working

Product Overview

The **4TheWall HDMI HDBaseT Extender** is a high-performance professional AV extension solution designed to transmit HDMI video and audio together with USB 2.0, IR, RS-232 and CEC control signals over distances of up to 100m / 328ft using a single CAT5e/6 cable.

The transmitter converts the HDMI signal into a standard HDBaseT signal for reliable transmission over category cable to the receiver. Supporting up to 18Gbps video bandwidth and resolutions up to 8K@60Hz with 4:4:4 color sampling, the system delivers detailed Ultra HD video with accurate color reproduction over long distances.

USB 2.0 extension enables compatible peripheral devices such as keyboards, mice, touchscreens and cameras to be operated remotely. Bi-directional IR and RS-232 pass-through, together with CEC support, provides flexible control of compatible source and display devices from either end of the installation.

Advanced EDID management with COPY TV and STD modes helps optimize video and audio compatibility between the source and display devices. The receiver also supports audio de-embedding, allowing the HDMI audio signal to be routed to an external audio system.

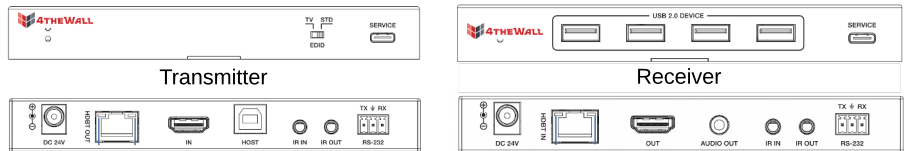
Bi-directional PoC technology allows both the transmitter and receiver to be powered using a single power adapter. This reduces additional power cabling and provides a cleaner, simpler and more flexible installation.

- **8K@60Hz 4:4:4 Video Transmission:** Delivers Ultra HD video with full color information for clear, detailed images and accurate color reproduction.
- **100m HDBaseT Extension:** Transmits HDMI video, audio, USB 2.0 and control signals up to 100m / 328ft over a single CAT5e/6 cable.
- **18Gbps Video Bandwidth:** Supports the high bandwidth required for HDMI 2.0b video resolutions up to 4K@60Hz with 4:4:4 color sampling.
- **USB 2.0 Extension:** Enables remote operation of compatible USB peripherals, including keyboards, mice, cameras and touchscreen displays.
- **Bi-Directional IR Control:** Allows compatible source and display devices to be controlled remotely from either end of the system.
- **Bi-Directional RS-232 Pass-Through:** Transfers serial control commands in both directions for integration with professional AV control and automation systems.
- **CEC Pass-Through:** Enables control commands to be exchanged between compatible HDMI-connected devices.
- **Advanced EDID Management:** COPY TV and STD modes help optimize resolution and audio compatibility between the source and display.
- **Advanced HDR Support:** Passes HDR, HDR10, HDR10+, Dolby Vision and HLG content between compatible source and display devices.
- **Multi-Channel Audio Support:** Supports advanced audio formats, including Dolby Atmos, Dolby TrueHD, DTS-HD Master Audio and DTS:X.
- **Audio De-Embedding:** Allows HDMI audio to be extracted at the receiver and routed to an external audio system.
- **Bi-Directional PoC:** Powers both the transmitter and receiver through the category cable using a single power adapter, simplifying installation.

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Technical Specifications

Input and Output	
Transmitter	1× IN HDMI2.1 Input 1× HDBT OUT [RJ45] Output 1× HOST [USB-B, 4-pin female] 1× IR IN [3.5mm audio jack] - Wideband 20k-60kHz ,5Vp-p 1× IR OUT [3.5mm audio jack] - Wideband 20k-60kHz ,5Vp-p 1× RS-232 [3pin-3.5mm phoenix connector] 1× SERVICE [USB-C]
Receiver	1× HDBT IN [RJ45] Input 1× OUT HDMI2.1 Output 1× AUDIO OUT [3.5mm audio jack] 4× USB 2.0 DEVICE 1× IR IN [3.5mm audio jack] - Wideband 20k-60kHz ,5Vp-p 1× IR OUT [3.5mm audio jack] - Wideband 20k-60kHz ,5Vp-p 1× RS-232 [3pin-3.5mm phoenix connector] 1× SERVICE [USB-C]
Inputs Resolution	Up to 4K@60Hz 4:4:4
HDCP Compliance	HDCP 2.3/2.2/1.x
General Features	
Video Bandwidth	18Gbps
Color Space	RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2, YUV 4:2:0
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Color	8/10/12bit
Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X
Transmission Distance	100m/328ft for 8K@60Hz signal over CAT5e/6 cable; 3m/9.8ft for 8K@60Hz signal over HDMI™ cable
Others	
Power Connection	DC 24V/1A; Support bi-directional PoC function,
Working Temperature	32 - 104°F / 0 - 40°C
Humidity Range	Working: 20%~80% (relative humidity, non-condensing) Storage: 10%~90% (relative humidity, non-condensing)
Storage Temperature	-4 - 140°F / -20 - 60°C
Dimensions	Transmitter/Receiver: 157mm (W) × 88mm (D) × 20mm (H)
Weight	Transmitter: 371g; Receiver: 378g
Power Value/Consumption	(PoC) 21.2W
Mounting	Desktop, optional rack mount kit
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Compliance	
EU/USA	CE/FCC/UL DoC document
Package Details	
Package Contents	1× 8K60 HDMI™ over HDBaseT Extender (Transmitter) 1× 8K60 HDMI™ over HDBaseT Extender (Receiver) 1× 24V/1A Locking Power Supply 1× USB Cable (USB-A to USB-B) 1× IR Blaster Cable (1.5m) 1× IR Wideband Receiver Cable (1.5m) 2× 3pin-3.5mm Phoenix Connector 4× Mounting Ear 8× Machine Screw (KM3*6) 1× QR Code for User Manual