

WHBT-HUUB21-100M

HDMI & USB-C Wallplate HDBaseT Extender 100M With USB2.0



WHBT-HUUB21-100M
TX



WHBT-HUUB21-100M
RX

The 4K60 HDMI/USB-C 2x1 HDBT Wall-plate Transmitter supports one HDMI input and one USB-C input within a standard single gang UK size 86mm×86mm wall box. It can transmit HDMI high-definition signal, bidirectional IR control signal, bidirectional RS-232 control signal and USB 2.0 signal over CAT6 to the distance up to 328ft/100m (HBT mode) or 492ft/150m (LRM mode). Video resolution is up to 4K2K@60Hz (4:4:4).

It supports EDID management (COPY TV/ Built-in) and POC function.

Features

- HDMI 2.0b, HDCP 2.2/1.x and DP 1.2a compliant
- HDMI input supports 18Gbps video bandwidth
- USB C input supports 5.4Gbps video bandwidth
- Support HDMI video resolution up to 4K2K@60Hz (4:4:4)
- Up to 7.1 channels HD audio
- Input signal source selection supports button switching
- Built-in mode DIP switch for selecting the HBT mode or LRM mode
HBT mode: Audio and video signals can be transmitted up to 328ft/100m for 4K60/4K30/1080P
LRM mode: Audio and video signals can be transmitted up to 492ft/150m for 4K30/1080P
- Built-in EDID DIP switch supports intelligent EDID management
- Built-in audio DIP switch supports analog audio embedding
- Built-in POC switches, when both POC switches of TX and RX are turned on, the Extender supports bidirectional 24V POC function, either TX or RX can be powered by 24V1A power supply.
- Transmit bidirectional Infrared control signal together with the HDMI signal. IR IN is a 5V power supply level
- Transmit bidirectional RS-232 control signal together with the HDMI signal.
- Receiver supports USB 2.0 signal transmission
- Standard single gang UK size 86mm×86mm wall box

Technical specification

	TX	RX
Input:	1 x HDBT IN [RJ45] 1 x USB-C IN [USB Type C] 1 x Audio [3.5mm Stereo Mini-jack]	1 x HDMI [Type A, 19-pin female]
Output:	1 x HDBT [RJ45] 1 x AUDIO Out [3pin-3.81mm Phoenix connector]	1 x HDMI Out [Type A, 19-pin female]
Control:	1 x To PC [USB Type B] 1 x RS-232 [3pin-3.81mm Phoenix connector] 1 x IR In [3pin-3.81mm Phoenix connector] 1 x IR Out [2pin-3.81mm Phoenix connector]	2 x USB 2.0 [USB Type A] 1 x RS-232 [3pin-3.81mm Phoenix connector] 1 x IR In [3pin-3.81mm Phoenix connector] 1 x IR Out [2pin-3.81mm Phoenix connector] 1 x Service [Micro USB]
HDMI Compliance:	HDMI 2.0b	
HDCP Compliance:	HDCP 2.2	
Video Bandwidth:	HDMI: 18Gbps; USB-C:5.4Gbps	
HDMI Video Resolution:	Up to 4K2K@60Hz 4:4:4	
Color Space:	RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0	
Color Depth:	8/10/12bit	
HDMI Audio Formats:	LPCM 7.1CH, Dolby True HD and DTS-HD Master (Full format)	
Analog Audio Embedding:	48KHz	
Transmission Distance:	LRM mode: 492ft/150m (4K30/1080P) STD-HBT mode: 328ft/100m (4K60/4K30/1080P)	
ESD Protection:	Human body model—±8kV (Air-gap discharge) &±4kV (Contact discharge)	
Housing:	Metal Enclosure	
Power Supply:	24V/1A (supporting bidirectional POC power supply)	
Power Consumption:	12.48W (Max)	
Operating Temperature:	32 - 104°F / 0 - 40°C	
Storage Temperature:	-4 - 140°F / -20 - 60°C	
Relative Humidity:	20 - 90% RH (no condensation)	
Dimension(W*D*H):	86mm x 38.5mm x 86mm	157.2mm x 88mm x 20mm
Weight:	234g	377g

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Typical applications

Any integration that requires multi format inputs over a long distance or requires HDBT outputs.

• Schools (Classroom, Lab, Hall etc.) • Churches • Corporate Applications (Board Room, Function Room etc) • Rental

Diagram

