

FAL-HDBT-100-WP-USBC-U2

HDMI/USB-C 4K 18 Gbps Wall Plate 100m with USB (CN/UK 2-Gang)

FALCON



The 4K60 HDMI/USB-C 2x1 HDBT Wall-plate Transmitter supports one HDMI input and one USB-C input within a standard 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). This product converts HDMI signal to standard HDBaseT signal and transmits it through LAN cable. It can easily control signal source device or display device from the remote end through bi-directional IR signal pass through function. It also supports POC function with POC control switch. The Extender can be widely used in other fields such as video conference system, multimedia signal broadcasting, HDMI signal extension, etc.

Key Features

- HDMI 2.0b, HDCP 2.2/1.x and DP 1.2a compliant
- HDMI input supports 18Gbps video bandwidth USB input supports 5.4Gbps video bandwidth
- Support 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, that is, either TX or RX is powered by 24V1A power supply, the another does not need power supply from the DC jack. (See the Description 1)
- Transmit bidirectional Infrared control signal together with the HDMI signal. (See the Description 2) IR IN is a 5V power supply level
- Transmit bidirectional RS-232 control signal together with the HDMI signal. (See the Description 3)
- The Receiver supports USB 2.0 signal transmission
- Standard 86mm×86mm wall box

Specifications

Technical

Parameter	Specification
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)

Mechanical

Parameter	Specification
Housing	Metal Enclosure
Color	Front panel: White; Rear case: Black
Dimensions	Transmitter: 86mm [W] x 86mm [D] x 38.5mm [H] Receiver: 157.2mm [W] x 88mm [D] x 20mm [H]
Weight	Transmitter: 234g; Receiver: 377g
Power Supply	24V/1A (supporting bidirectional POC power supply)
Power Consumption	12.48W (Max)
Operation Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

Connections Transmitter

Port Type	Details
Input	1 x HDMI IN [Type A, 19-pin female] 1 x USB-C IN [USB Type C] 1 x AUDIO IN [3.5mm Stereo Mini-jack]
Output	1 x HDBaseT OUT [RJ45]
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]

Receiver

Port Type	Details
Input	1 x HDBT IN [RJ45]
Output	1 x HDMI OUT [Type A, 19-pin female] 1 x AUDIO OUT [3pin-3.81mm Phoenix connector]
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]