



PRODUCT DATASHEET

iTrans WP100HC

4K60 HDMI/USB-C 2x1 HDBaseT Wall-Plate Extender (UK Version)



100 m	18 Gbps	HDMI + USB-C
OVER SINGLE CAT6 (HBT MODE)	VIDEO BANDWIDTH · 4K60 4:4:4	2x1 WALL-PLATE SOURCE SWITCHING

OVERVIEW

The iTrans WP100HC is a 4K60 HDMI/USB-C 2x1 HDBaseT wall-plate transmitter that fits a standard 86mm x 86mm wall box, supporting one HDMI input and one USB-C input. It transmits HDMI high-definition video, bi-directional IR control signal, bi-directional RS-232 control signal and USB 2.0 signal over CAT6, up to 328ft/100m in HBT mode or 492ft/150m in LRM mode, at video resolutions up to 4K2K@60Hz (4:4:4).

The wall-plate converts HDMI or USB-C signal to standard HDBaseT signal for transmission over LAN cable, and provides bi-directional IR pass-through for controlling source or display devices from the remote end. Built-in POC switches allow either the transmitter or receiver to power the link from a single 24V/1A supply. The extender is well suited to video conferencing systems, multimedia signal broadcasting, and general HDMI signal extension.

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
- Video Resolution up to 4K2K@60Hz (4:4:4)
- Up to 7.1 Channels HD Audio
- Push-Button Input Source Selection between HDMI and USB-C
- Built-In Mode DIP Switch — HBT mode (100m/328ft @ 4K60/4K30/1080P) or LRM mode (150m/492ft @ 4K30/1080P)
- Built-In EDID DIP Switch for intelligent EDID management
- Built-In Audio DIP Switch supports analog audio embedding
- Bidirectional 24V POC — either TX or RX can power the link from a single 24V/1A supply
- Bidirectional Infrared and RS-232 Control Signal Pass-Through, transmitted together with the HDMI signal
- Receiver Supports USB 2.0 Signal Transmission
- Standard 86mm x 86mm Wall Box

SPECIFICATIONS

TECHNICAL	
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	8/10/12-bit
HDMI Audio Formats	LPCM 7.1CH, Dolby TrueHD 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)
CONNECTIONS	
Transmitter Input	1x HDMI IN [Type A, 19-pin female]; 1x USB-C IN [USB Type C]; 1x AUDIO IN [3.5mm stereo mini-jack]
Transmitter Output / Control	1x HDBaseT OUT [RJ45]; 1x TO PC [USB Type B]; 1x RS-232 [3pin-3.81mm Phoenix]; 1x IR IN [3pin-3.81mm Phoenix]; 1x IR OUT [2pin-3.81mm Phoenix]
Receiver Input	1x HDBT IN [RJ45]
Receiver Output / Control	1x HDMI OUT [Type A, 19-pin female]; 1x AUDIO OUT [3pin-3.81mm Phoenix]; 2x USB 2.0 [USB Type A]; 1x RS-232 [3pin-3.81mm Phoenix]; 1x IR IN [3pin-3.81mm Phoenix]; 1x IR OUT [2pin-3.81mm Phoenix]; 1x SERVICE [Micro USB]
MECHANICAL	
Housing	Metal enclosure; 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	
Power Supply	24V/1A (supports bidirectional POC power supply)
Power Consumption	12.48W (Max)
ENVIRONMENTAL	

Operating Temperature	32–104°F / 0–40°C
Storage Temperature	-4–140°F / -20–60°C
Relative Humidity	20–90% RH (no condensation)
CONTROL	
EDID Management	DIP switch: 00 = copy RX display EDID (factory default), 01 = 4K30 4:4:4, 10 = 1080p60 4:4:4, 11 = 1200p60 4:4:4
Mode DIP Switch	LRM (long-reach, 150m) or STD-HBT (100m)
Audio-Out Source DIP Switch	HDMI (de-embedded from Transmitter HDMI IN) or L/R (embedded analog audio from Transmitter AUDIO IN)
COMPLIANCE	
Certifications	TBD — no standalone CE/FCC/RoHS statement found in source manual

APPLICATION EXAMPLE

Typical deployment: a wall-mounted HDMI/USB-C source input transmits video, IR, RS-232 and USB signals to a rack-mounted receiver over a single CAT6 cable.

The iTrans WP100HC is designed for meeting rooms and classrooms where a wall-plate source input (HDMI or USB-C) needs to reach a display or codec located up to 100m away. The transmitter mounts in a standard 86mm x 86mm wall box near the table or lectern, while the receiver sits in the equipment rack near the display.

- Laptop or source device connects to the wall-plate HDMI IN or USB-C IN port
- SOURCE button on the wall-plate switches between the HDMI and USB-C input
- Transmitter connects to Receiver via a single CAT6 cable (up to 100m/328ft in STD-HBT mode)
- Display connects to the Receiver HDMI OUT port
- Keyboard/mouse or other USB 2.0 devices connect to the Receiver USB-A ports
- IR and RS-232 pass-through allow remote-end control of the source or display

ORDERING INFORMATION

Model	Description
iTrans WP100HC	4K60 HDMI/USB-C 2x1 HDBaseT Wall-Plate Extender (UK Version) — includes wall-plate transmitter, HDBT receiver, Phoenix connectors, IR receiver/blaster cables, mounting ears, screws and 24V/1A locking power

Model	Description
	supply

Specifications are subject to change without notice. For the latest product information, visit www.infobitav.com or contact your Infobit AV representative.