TC-EXTU-100

4K60 HDBaseT Extender (100m/USB)

100 m of HDBaseT, with USB at the far end



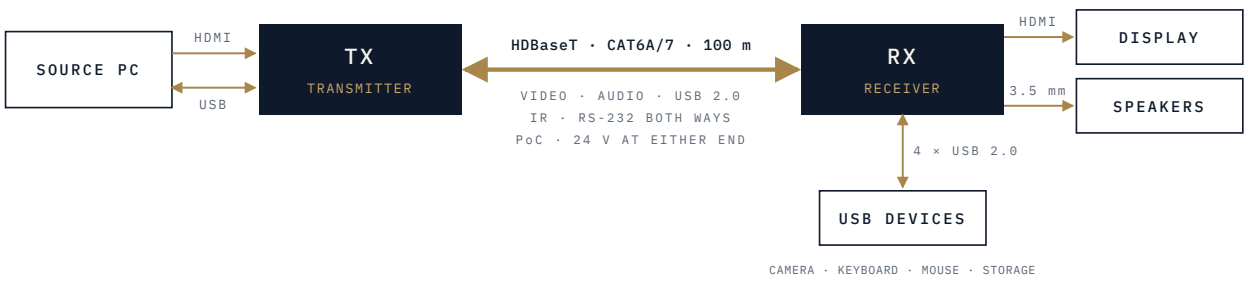
100 m	4K60 4:4:4	USB 2.0	PoC
at 4K60 over one CAT6A/7 cable	HDMI 2.0b · 18 Gbps · HDCP 2.3	PC at one end · four USB-A ports at the other	power over cable · one 24 V supply for the pair

TC-EXTU-100 extends HDMI 2.0b up to 100 m over a single CAT6A/7 cable, using HDBaseT: 4K @ 60 Hz with full 4:4:4 colour, and HDR10, HDR10+, Dolby Vision and HLG passed through. HDCP 2.3, 2.2 and 1.x are all supported, and one 24 V supply at either end powers both units over the same cable.

USB 2.0 travels on the same cable: a PC on the transmitter's USB-B host port reaches a camera, keyboard, mouse or storage on the receiver's four USB-A ports, so the computer stays in the rack and its peripherals at the display. Infrared and RS-232 pass both ways and CEC passes through. The receiver also outputs programme audio on a 3.5 mm jack, and EDID is set on the transmitter by DIP switch — copied from the display, or a standard 4K60 SDR stereo profile.

01 KEY CAPABILITIES

- 4K @ 60 Hz 4:4:4; HDR10, HDR10+, Dolby Vision and HLG pass-through
- 100 m at 4K60 over a single CAT6A/7 cable
- USB 2.0 on the same cable — PC to four USB devices
- Bi-directional IR and RS-232, plus CEC pass-through
- Bi-directional PoC — one 24 V supply runs the pair
- 3.5 mm analogue audio out at the receiver
- EDID by DIP switch — copy the display, or a 4K60 preset
- HDCP 2.3, 2.2 and 1.x



SIGNAL PATH · ONE CABLE CARRIES VIDEO, AUDIO, USB, CONTROL AND POWER

02 VIDEO

Signal standard	HDMI 2.0b
HDCP	HDCP 2.3 / 2.2 / 1.x
Maximum resolution	Up to 4K @ 60 Hz 4:4:4 (to 4096 × 2160)
Bandwidth	18 Gbps
Colour space	RGB · YCbCr 4:4:4 / 4:2:2 / 4:2:0
Colour depth	8/10/12-bit
HDR	HDR10, HDR10+, Dolby Vision, HLG
CEC	CEC pass-through

03 AUDIO

HDMI audio formats	LPCM, Dolby Digital/Plus/EX, Dolby TrueHD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X
Audio de-embedding	Receiver: analogue audio out (3.5 mm)

04 TRANSPORT & DISTANCE

Transport	HDBaseT
Transmission distance	100 m at 4K60 over CAT6A/7
Power over the link	Bi-directional PoC — one 24 V supply at either end powers both

05 CONNECTIVITY

Inputs	Transmitter: 1 × HDMI · Receiver: 1 × HDBaseT (RJ45)
Outputs	Transmitter: 1 × HDBaseT (RJ45) · Receiver: 1 × HDMI + 3.5 mm analogue audio
USB	USB 2.0 · transmitter USB-B host · receiver 4 × USB-A (1 A per pair)
Control ports	Each end: IR in/out (3.5 mm), RS-232 (3-pin Phoenix), USB-C service port

06 CONTROL

Control methods	Pass-through: IR and RS-232 in both directions, and CEC
EDID management	DIP switch: TV (copy from the display) or STD (4K60 4:4:4 SDR, 2-ch)
IR	Wideband 20–60 kHz, 5 Vp-p

07 ELECTRICAL & PHYSICAL

Power supply	24 V DC, 1 A locking supply
Dimensions (W × D × H)	157 × 88 × 20 mm (each unit)
Weight	Transmitter 371 g · receiver 378 g
Housing	Metal, black
Operating temperature	0 to 40 °C
Storage temperature	−20 to 60 °C
Humidity	Operating 20–80 % · storage 10–90 % RH, non-condensing
ESD protection	±8 kV air · ±4 kV contact (IEC 61000-4-2)

08 COMPLIANCE & ASSURANCE

Certification statement	Designed for global compliance — CE, FCC, RoHS, and regional certifications, as applicable.
Warranty	3 years

09 IN THE BOX

In the box	Transmitter · receiver · 24 V / 1 A locking supply · USB-A to USB-B cable · IR blaster cable (1.5 m) · wideband IR receiver cable (1.5 m) · 2 × 3-pin Phoenix · 4 mounting ears · 8 screws

10 ORDERING

Order code	**TC-EXTU-100**
Kit composition	Sold as a kit — transmitter + receiver

PRODUCT PAGE

telecis.com/products/extenders/tc-extu-100/

VIEWS



TRANSMITTER, FRONT AND REAR



RECEIVER, FRONT AND REAR

DRAWING



TRANSMITTER



RECEIVER

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signal · engineered.