PRODUCTS › EXTENDERS

TC-EXT-70

4K60 HDMI Extender (70m)

70 m over CAT6/6A, without touching the picture



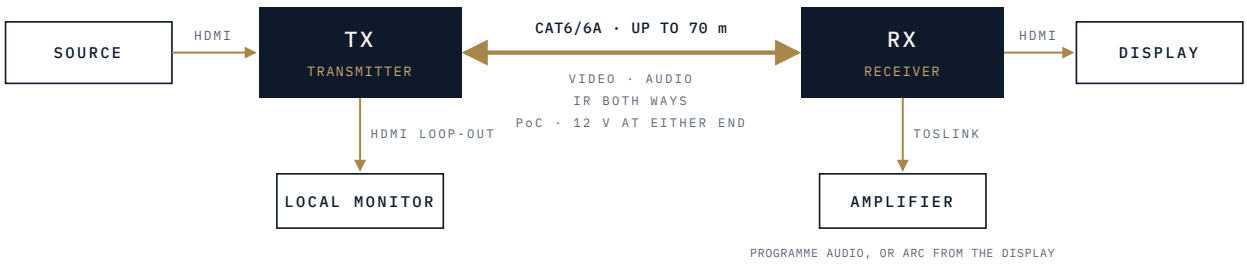
70 m	4K60 4:4:4	HDR	PoC
over one CAT6/6A cable	HDMI 2.0b · 18 Gbps · HDCP 2.2	HDR10 · HDR10+ · Dolby Vision · HLG	power over cable · one 12 V supply for the pair

TC-EXT-70 carries HDMI 2.0b across up to 70 m of a single CAT6/6A cable, uncompressed and without added latency: 4K @ 60 Hz with full 4:4:4 colour, and HDR10, HDR10+, Dolby Vision and HLG passed through. HDCP 2.2 is maintained end to end, and one 12 V supply at either end powers both units over the same cable.

Control and audio travel with the picture. Infrared passes in both directions, so source and display can be operated from either end. The receiver's TOSLINK output feeds an amplifier with the programme audio or, with ARC enabled, the sound returning from the display. EDID is set on the transmitter by DIP switch — copied from the far display or the local loop-out, or fixed at 4K60 or 1080p stereo.

01 KEY CAPABILITIES

- 4K @ 60 Hz 4:4:4; HDR10, HDR10+, Dolby Vision and HLG pass-through
- Bi-directional PoC — one power supply at either end runs the pair
- Bi-directional IR — control source and display from either end
- HDMI loop-out at the transmitter for a local monitor
- 70 m over a single CAT6/6A cable — uncompressed, zero latency
- Receiver TOSLINK output: de-embedded programme audio, or the display's ARC audio
- EDID by DIP switch — copy the far or local display, or fix 4K60 or 1080p stereo
- Compact metal housings with mounting ears



SIGNAL PATH · ONE CAT6/6A RUN CARRIES VIDEO, AUDIO, IR AND POWER

02 VIDEO

Signal standard	HDMI 2.0b
HDCP	HDCP 2.2
Maximum resolution	Up to 4K @ 60 Hz, RGB / YCbCr 4:4:4
Bandwidth	18 Gbps
Colour space	RGB 4:4:4 · YCbCr 4:4:4 / 4:2:2 / 4:2:0
Colour depth	8/10/12-bit
HDR	HDR10, HDR10+, Dolby Vision, HLG

03 AUDIO

HDMI audio formats	LPCM 7.1, Dolby TrueHD, DTS-HD Master Audio
Audio de-embedding	Receiver TOSLINK output: Dolby 5.1, DTS 5.1, PCM 2.0
Audio return	ARC — audio from the display at the receiver leaves on the receiver's TOSLINK (DIP-selectable)

04 TRANSPORT & DISTANCE

Transport	Uncompressed, zero-latency HDMI over one CAT cable (point to point)
Transmission distance	70 m at 4K60 4:4:4 and at 1080p, over CAT6/6A
Power over the link	Bi-directional PoC — one 12 V supply at either end powers both

05 CONNECTIVITY

Inputs	Transmitter: 1 × HDMI · Receiver: 1 × CAT (RJ45)
Outputs	Transmitter: 1 × HDMI loop-out + 1 × CAT (RJ45) · Receiver: 1 × HDMI + 1 × TOSLINK
Control ports	Each end: IR in, IR out (3.5 mm), micro-USB service port

06 CONTROL

Control methods	IR pass-through (no RS-232)
EDID management	DIP switch on the transmitter: copy from the display at the receiver · 4K60 stereo · 1080p stereo · copy from the local loop-out display
IR	Bi-directional IR, wideband 20–60 kHz, 5 Vp-p

07 ELECTRICAL & PHYSICAL

Power supply	12 V DC, 1 A locking adapter
Power consumption	3.36 W max
Dimensions (W × D × H)	90 × 68 × 18 mm (each unit)
Weight	Transmitter 160 g · receiver 155 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 · IR blaster cable (1.5 m) · wideband IR receiver cable (1.5 m) · 4 mounting ears · 8 screws · 12 V / 1 A locking adapter

10 ORDERING

Order code	**TC-EXT-70**
Kit composition	Sold as a kit — transmitter + receiver

PRODUCT PAGE

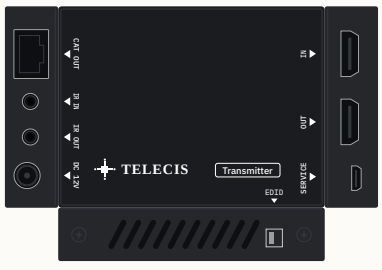
telecis.com/products/extenders/tc-ext-70/

VIEWS



KIT, REAR

DRAWING



TRANSMITTER



RECEIVER

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signal · engineered.