TC-IPD-HDMI

JPEG2000 4K60 AV over IP Decoder (USB/Audio)

4K60 4:4:4 from the network to the display, with USB and audio both ways



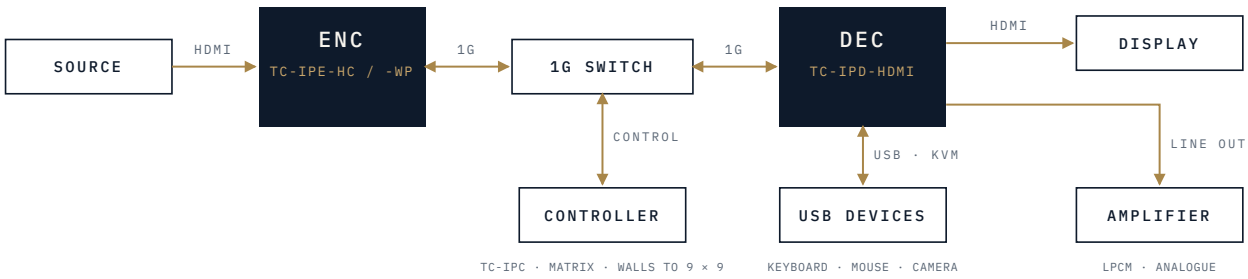
4K60 4:4:4	JPEG2000	9 × 9	PoE
HDMI 2.0b · 18 Gbps · HDCP 2.2	over 1G Ethernet, copper or fibre	video wall · matrix · point-to-point	or a 12 V supply ordered separately · 7.8 W max

TC-IPD-HDMI decodes JPEG2000 from a 1G network to HDMI 2.0b at up to 4K @ 60 Hz 4:4:4, with HDCP 2.2. Copper and fibre network ports share one unit, the copper port with PoE, and the decoder works point-to-point, in a matrix, or as one screen of a video wall up to 9 × 9, unicast or multicast. Channels are chosen from the front panel, with an LED channel display, or through the web GUI, Telnet, SSH or the **TC-IPC** control box.

The HDMI output carries LPCM up to 7.1 and the Dolby and DTS formats up to Dolby Atmos and DTS:X, and LPCM also reaches the analogue line output. Point-to-point, the display's sound returns to the encoder over eARC or ARC, S/PDIF or analogue; Dante AV-A is an option on licence. USB follows the video for KVM and camera extension on four USB-A device ports (two USB 2.0, two USB 1.1), IR and RS-232 pass both ways, CEC reaches the display, and two relays and two digital I/O handle contact control where the screen is.

01 KEY CAPABILITIES

- Decodes JPEG2000 to HDMI at up to 4K @ 60 Hz 4:4:4
- Point-to-point, matrix or video wall to 9 × 9 — unicast or multicast
- Relays and digital I/O for contact control at the display
- Copper and fibre network ports in one unit
- USB 2.0, KVM and camera extension, with IR, RS-232 and CEC carried over the network
- Channel select from the front panel, with an LED channel display



SIGNAL PATH · THE CONTROLLER ROUTES AN ENCODER TO THIS DECODER; AUDIO AND USB AT THE DISPLAY

02 VIDEO

Signal standard	HDMI 2.0b
HDCP	HDCP 2.2
Maximum resolution	Output up to 4K @ 60 Hz, 4:4:4
Bandwidth	18 Gbps
Colour space	RGB 4:4:4 · YCbCr 4:4:4 / 4:2:2 / 4:2:0
Colour depth	Output 8-bit at 4K60 4:4:4 · 10-bit at 4K60 4:2:0 / 4:2:2
HDR	Passed through, 10-bit
Compression / codec	JPEG2000
CEC	CEC guest-mode control

03 AUDIO

HDMI audio formats	LPCM 2.0/5.1/7.1, Dolby Digital/Plus/EX, Dolby TrueHD, Dolby Atmos, DTS, DTS-96/24, DTS-EX, DSD, DTS High Res, DTS-HD Master Audio, DTS:X
Analogue audio input	Line in (3-pin 3.81 mm Phoenix) — returns audio to the encoder's line out, point-to-point (unicast) only
Analogue audio output	Line out (3-pin 3.81 mm Phoenix) — carries the HDMI output's audio when it is LPCM
Audio return	Audio return to the encoder, point-to-point (unicast): eARC / ARC / S/PDIF / analogue · encoder and decoder set to the same return mode
Networked audio	Dante AV-A, on licence activation
Other audio formats	S/PDIF optical input — return path to the encoder

04 TRANSPORT & DISTANCE

Transport	AV over IP — copper and fibre ports in one unit · unicast / multicast · video wall to 9 × 9
Network	1G Ethernet
Transmission distance	100 m over CAT5e/6/6A/7
Passive cable reach	Passive HDMI: 5 m at 4K60 · 10 m at 4K30 · 15 m at 1080p60
Power over the link	PoE

05 CONNECTIVITY

Inputs	Network: 1 × RJ45 (PoE) or fibre slot · audio: 1 × S/PDIF optical, 1 × analogue line in
Outputs	1 × HDMI · 1 × analogue line out
USB	2 × USB 1.1 device + 2 × USB 2.0 device (Type-A) · USB 2.0 / KVM / camera extension
Network ports	1 × RJ45 (PoE) · 1 × fibre slot
Control ports	RS-232 · 2 × relay · 2 × digital I/O · IR in / out (3.5 mm)

06 CONTROL

Control methods	Front-panel channel select with display · web GUI · Telnet · SSH
IR	12 V default, 5 V optional · wideband 20–60 kHz
Relays / GPIO	2 × relay (isolated, to 1 A at 30 V DC) · 2 × digital I/O (detects up to 12 V) · VCC output, 12 V or 5 V

07 ELECTRICAL & PHYSICAL

Power supply	PoE, or a 12 V DC / 2.5 A locking adapter ordered separately
Power consumption	7.8 W max
Dimensions (W × D × H)	204 × 136 × 25.5 mm
Weight	626 g
Housing	Metal, black
Operating temperature	0 to 40 °C
Storage temperature	–20 to 60 °C
Humidity	20–90 % 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	Decoder · IR receiver cable (1.5 m) · IR blaster cable (1.5 m) · 3 × 3-pin 3.81 mm Phoenix · plug for the relay / digital-I/O terminal · 2 mounting ears · 4 screws · no power adapter (PoE; a 12 V adapter is ordered separately)

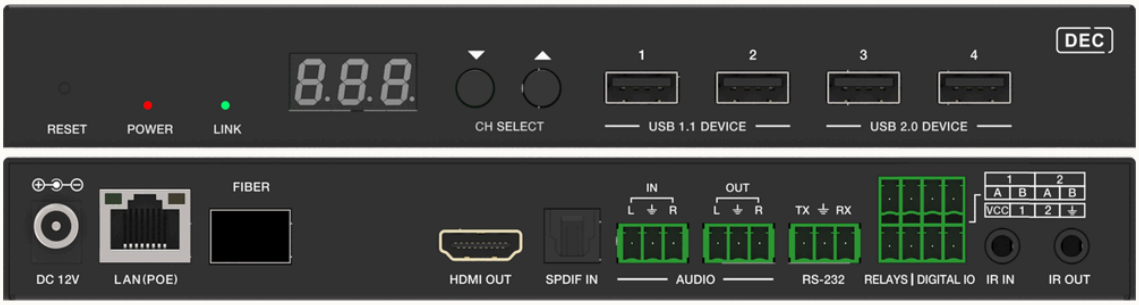
10 ORDERING

Order code	**TC-IPD-HDMI**

PRODUCT PAGE

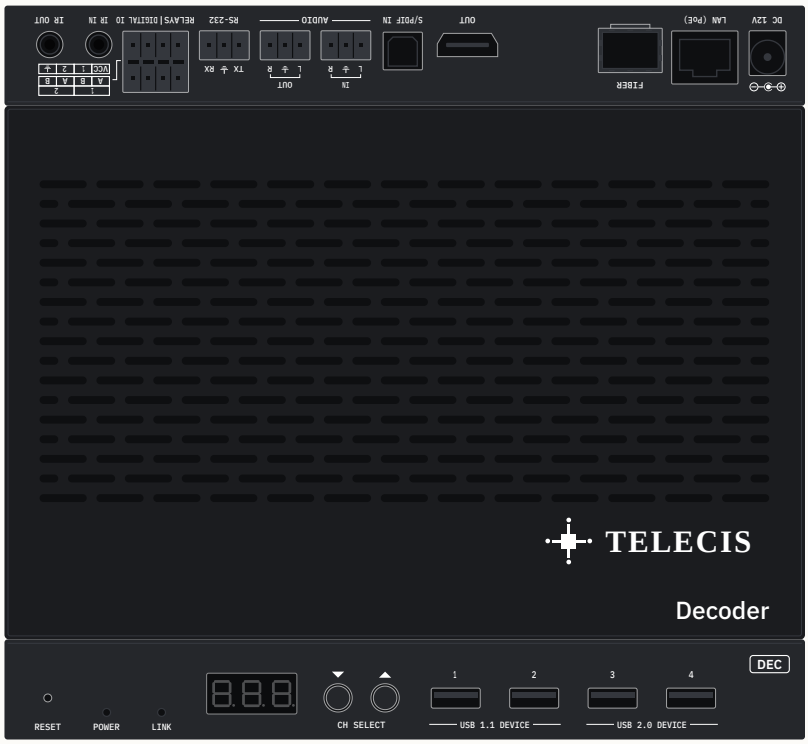
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VIEWS



FRONT AND REAR PANELS

DRAWING



DECODER

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