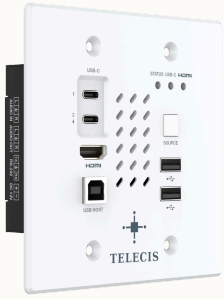
PRODUCTS › AV OVER IP

TC-IPE-WP

JPEG2000 4K60 AV over IP Wall Plate Encoder (KVM)

The platform's wall-plate encoder — HDMI and USB-C in, KVM with it



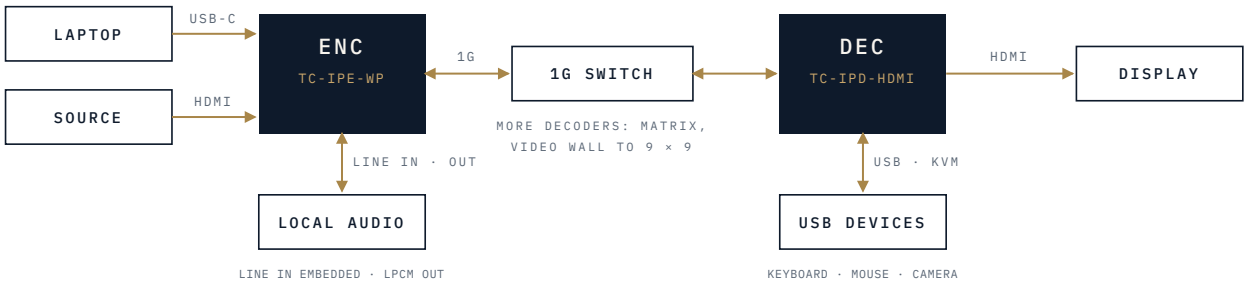
JPEG2000	USB-C	9 × 9	PoE
4K @ 60 Hz 4:4:4 over 1G Ethernet	video, audio, USB and charging on one cable	video wall · matrix · point-to-point	802.3at, or a local 12 V supply

TC-IPE-WP puts a JPEG2000 encoder in a US 2-gang wall plate. It takes HDMI or USB-C at up to 4K @ 60 Hz 4:4:4, switching automatically when a source is connected, and sends picture, audio and USB 2.0 over one 1G Ethernet cable, powered by PoE or a local 12 V supply. From a laptop, one USB-C cable carries video, audio and USB — and charges the laptop when a USB-C PD adapter feeds the second port.

Any decoder of the series on the network can take the stream — point-to-point, as a matrix, or across a video wall of up to 9 × 9, by unicast or multicast. USB follows the video for KVM, so a keyboard, mouse or camera at the decoder reaches the computer at the plate. Line audio can be embedded, and HDMI audio de-embedded to the line output when it is LPCM; Dante AV-A is available on licence, and the encoder answers to its web GUI, TCP, Telnet, SSH or RS-232, or to a third-party control system.

01 KEY CAPABILITIES

- 4K @ 60 Hz 4:4:4 over 1G Ethernet, in JPEG2000
- One USB-C cable for video, audio, USB and charging
- Point-to-point, matrix or a 9 × 9 video wall
- Audio embedding and de-embedding; Dante AV-A on licence
- HDMI and USB-C inputs, switched automatically or by hand
- USB 2.0 and KVM travel with the video
- PoE (802.3at) or a local 12 V supply
- MJPEG sub-stream for live preview on portable devices



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

02 VIDEO

Signal standard	HDMI 2.0b · DisplayPort 1.2 on USB-C
HDCP	HDCP 2.2
Maximum resolution	Input up to 4096 × 2160 @ 60 Hz, 4:4:4
Resolution notes	Output resolution is set by the decoder
Bandwidth	18 Gbps video · USB 480 Mbps
Colour space	RGB · YCbCr 4:4:4 / 4:2:2 / 4:2:0
Colour depth	Input 8/10/12-bit (8-bit at 4K60 4:4:4) · 10-bit HDR end to end
HDR	HDR10, Dolby Vision and HLG passed through · 10-bit end to end
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
Audio de-embedding	Line in embedded · LPCM de-embedded to line out
Analogue audio input	Line in (3-pin 3.5 mm Phoenix) · ≥ 10 kΩ · max 1 Vrms
Analogue audio output	Line out (3-pin 3.5 mm Phoenix) · 330 Ω · max 1 Vrms
Networked audio	Dante AV-A, on licence activation
Analogue performance	20 Hz–20 kHz (+0.5 / −1 dB) · S/N > 90 dB (HDMI 0 dB, 1 kHz, A-weighted) · THD+N < 0.05 % (HDMI 0 dB, 1 kHz)

04 TRANSPORT & DISTANCE

Transport	AV over IP — unicast and multicast · point-to-point, matrix, video wall to 9 × 9
Network	1G Ethernet
Transmission distance	100 m over CAT6/6A/7
Passive cable reach	Passive HDMI: 5 m at 4K60 · 10 m at 4K30 · 15 m at 1080p60
Power over the link	PoE (802.3at PD) or local 12 V

05 CONNECTIVITY

Inputs	1 × HDMI · 2 × USB-C (USB-C 1 = video, audio, USB; charging via a PD adapter on USB-C 2) · 1 × analogue line in
Outputs	1 × analogue line out (3-pin 3.5 mm Phoenix)
USB	1 × USB 2.0 host (Type-B) · 2 × USB 2.0 device (Type-A; 5 V / 0.6 A, or 0.2 A on PoE) · KVM
Network ports	1 × RJ45 (PoE)
Control ports	RS-232 (3-pin 3.5 mm Phoenix)

06 CONTROL

Control methods	Web GUI, TCP, Telnet, SSH, RS-232; third-party control systems
Switching	HDMI / USB-C: automatic on source detection, or manual
Pairs with	Any decoder of the same series (**TC-IPD-HDMI**)

07 ELECTRICAL & PHYSICAL

Power supply	12 V DC, 2.5 A multinational adapter (2-pin 3.5 mm Phoenix)
Power consumption	12 W max
Dimensions (W × D × H)	115.9 × 44.25 × 114.3 mm
Weight	350 g
Housing	Aluminium faceplate on an iron case · white faceplate, black case
Mounting	US 2-gang wall box
Operating temperature	0 to 40 °C
Storage temperature	−20 to 60 °C
Humidity	Operating 20–80 % · storage 10–90 % RH, non-condensing
ESD protection	±15 kV air · ±8 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

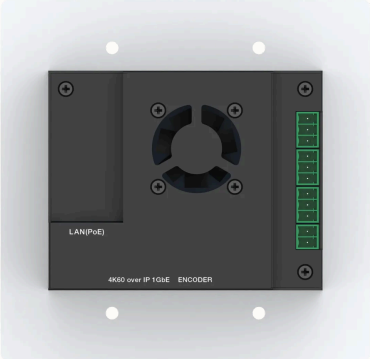
In the box	Wall-plate encoder · 3 × 3-pin 3.5 mm Phoenix · 12 V / 2.5 A multinational supply

10 ORDERING

Order code	**TC-IPE-WP**

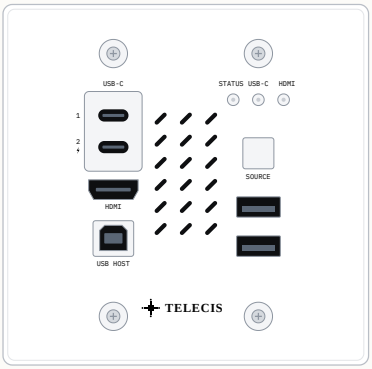
PRODUCT PAGE
telecis.com/products/av-over-ip/tc-ipe-wp/

VIEWS

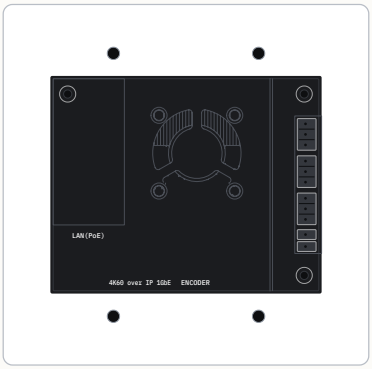


REAR

DRAWING



FRONT



REAR

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signal · engineered.