TC-PMX-0808

8x8 HDMI Matrix

Any of eight HDMI sources to any of eight displays, in one rack unit



8 × HDMI
outputs · any of eight sources on each

4K60
4:4:4 on every port · HDMI 2.0b · 18 Gbps

Per output
coaxial and analogue L/R audio · ARC to coaxial

21
built-in EDIDs · 8 copy modes · 2 user EDIDs

TC-PMX-0808 routes any of eight HDMI sources to any of eight displays at up to 4K @ 50/60 Hz 4:4:4 on every port, over HDMI 2.0b at 18 Gbps with HDCP 2.2 and 1.4. Each output downscales 4K to 1080p on its own. HDR10, HDR10+, Dolby Vision and HLG pass through, and CEC is supported.

Every HDMI output has its audio de-embedded to a coaxial output (RCA) and an analogue L/R output (3.5 mm); with ARC on, the display's audio returns to the coaxial output. The HDMI outputs pass LPCM up to 7.1, Dolby TrueHD and Atmos, and DTS-HD Master Audio and DTS:X. Twenty-one built-in EDIDs and eight copy modes set what each input reports, from the front panel, RS-232 or the web GUI, where two user EDIDs can also be uploaded. Control is from the front panel with its OLED display, the IR remote, RS-232 (D-Sub 9) or TCP/IP with a web GUI. The 1U rack unit runs from a 12 V / 5 A adapter and draws 43 W.



SIGNAL PATH · ANY OF EIGHT SOURCES TO ANY OF EIGHT DISPLAYS; AUDIO DE-EMBEDDED AT EVERY OUTPUT

01 VIDEO

Signal standard	HDMI 2.0b
HDCP	HDCP 2.2 and 1.4
Maximum resolution	Up to 4K 50/60 Hz, 4:4:4, on every port
Scaling	Each output downscales 4K → 1080p independently
Bandwidth	18 Gbps
Colour space	RGB · YCbCr 4:4:4 / 4:2:2 / 4:2:0
Colour depth	8/10/12-bit · 8-bit at 4K @ 60 Hz 4:4:4 (the 18 Gbps limit)
HDR	HDR10, HDR10+, Dolby Vision, HLG
CEC	CEC supported

02 AUDIO

HDMI audio formats	Pass-through: LPCM 2/5.1/7.1, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS 5.1, DTS-HD Master Audio, DTS:X
Audio de-embedding	Per output — coaxial (RCA) and analogue L/R (3.5 mm)
Audio return	ARC — display audio extracted to the coaxial output
Other audio formats	Coaxial: LPCM 2.0, Dolby Digital / Plus, DTS 5.1 · Analogue L/R: PCM 2.0

03 TRANSPORT & DISTANCE

Passive cable reach	HDMI in/out: 5 m at 4K60 · 10 m at 4K30 · 15 m at 1080p60 · Premium High Speed HDMI cable recommended

04 CONNECTIVITY

Inputs	8 × HDMI (Type A)
Outputs	8 × HDMI · 8 × coaxial audio (RCA) · 8 × analogue L/R (3.5 mm)
Network ports	1 × RJ45 (TCP/IP)
Control ports	RS-232 (D-Sub 9) · IR EXT (3.5 mm)
Other ports	Earth screw (GND)

05 CONTROL

Control methods	Front panel with OLED display, IR remote, RS-232, LAN, web GUI
EDID management	21 built-in EDIDs and 8 copy modes, set from the front panel, RS-232 or web GUI · 2 user EDIDs (.bin) uploaded in the web GUI

06 ELECTRICAL & PHYSICAL

Power supply	12 V DC, 5 A (100–240 V AC adapter)
Power consumption	43 W
Dimensions (W × D × H)	440 × 200 × 44.5 mm
Weight	2.8 kg
Housing	Metal, black
Mounting	1U rack mount
Operating temperature	–10 to 45 °C
Storage temperature	–20 to 60 °C
Humidity	20–90 % RH, non-condensing
ESD protection	±8 kV air · ±4 kV contact (human-body model)

07 COMPLIANCE & ASSURANCE

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

08 IN THE BOX

In the box	Matrix · 12 V / 5 A power adapter · IR remote · IR receiver cable (1.5 m) · RS-232 cable (1.5 m) · 2 mounting ears

09 ORDERING

Order code	**TC-PMX-0808**

PRODUCT PAGE

telecis.com/products/matrices/tc-pmx-0808/

DRAWING



MATRIX

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signal · engineered.