

MX-TPS-OB* **new!**



TPS output board for HDMI, Ethernet, audio and control

Features:

- HDMI extension supporting 3D and 4K
- Accepts HDMI + Ethernet + RS-232 over one CAT5/6/7 cable up to 180m distance
- HDMI 1.4; DVI and HDCP compliant
- 4K, UHD, 2560 x 1600, HD video resolutions and all 3D formats are supported
- 10/100 Ethernet transmission
- Supports all HDMI audio formats
- Digital or analog audio option card

MX-TPS-OB the 8 channel twisted pair output board provides HDMI 1.4, audio, Ethernet and RS-232 transmission on a single CAT5/6/7 cable up to 100m in HDBaseT™ and 180m distance in Long reach mode (maximal resolution is Full HD 1080p in Long reach mode). Resolutions up to 4K and 48-bit color depth are handled with all standard audio formats as well as 120Hz 3D signals. The board offers bi-directional RS-232 and Ethernet transmission (each board has a 10/100 uplink connector for the Ethernet network connection) and remote powering option for the TPS extenders. The output board is available with audio option connectors: digital S/PDIF or analog stereo connectors are available for advanced audio functions (HDMI embedded audio signals are managed by the board). The MX-TPS-OB without the digital or analog audio option also handles HDMI embedded audio. The board is compatible with deep color, Dolby TrueHD and DTS-HD audio and features PCM audio sample rate conversion. Advanced professional functions such as HDCP enable/disable mode, Pixel Accurate Reclocking, Advanced EDID Management and Frame Detector are integrated providing the highest level of setup and usage.

Digital S/PDIF audio option:

- S/PDIF breakout for every port
- Bi-directional configurable S/PDIF connectors: audio can be de-embedded from the HDMI signals or audio can be embedded (or replaced) to the HDMI signal

Analog stereo audio option:

- Bi-directional configurable analog stereo port with 5 pole phoenix connector
- Stereo PCM audio up to 96 kHz can be de-embedded from the HDMI signals
- Digitalized audio (PCM 48 kHz) can be embedded (or replaced) to the HDMI signal

Specifications

HDCP compliancy:	Yes
Max resolution	Up to 4096x2160
3D signal compatibility:	Frame packing, side-by-side, top-bottom
Input connectors:	RJ45, S/PDIF, PHOENIX
Power consumption (3.3 V) -OB & -OB-S:	3,4A typ., 7,8 max.
Power consumption (3.3 V) -OB-A:	3,8A typ., 8,2 max.
Power consumption (5 V) -OB & -OB-S:	2,2A typ., 3,1 max.
Power consumption (5 V) -OB-A:	2,2A typ., 3,1 max.
Calculated AC Power (W) -OB & -OB-S:	22W typ., 41W max.
Calculated AC Power (W) -OB-A:	23,5W typ., 42,5W max.
Heat dissipation (BTU) -OB & -OB-S:	75 typ., 139,89 max.
Heat dissipation (BTU) -OB-A:	80,18 typ., 145 max.
Weight MX-TPS-OB:	855 g
Weight MX-TPS-OB-S:	925 g
Weight MX-TPS-OB-A:	920 g

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MX-TPS-OB-A

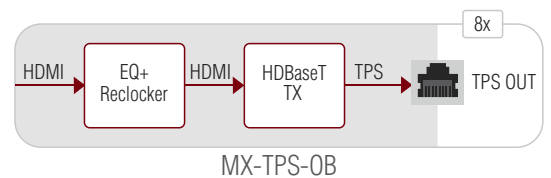
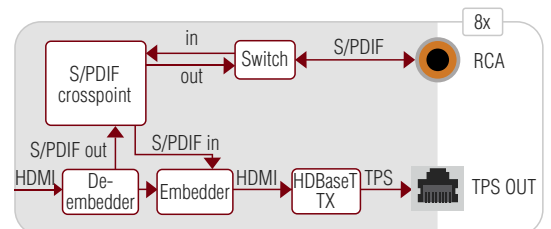
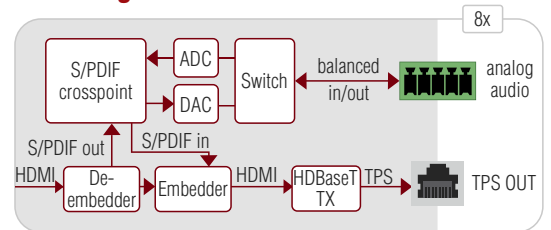


MX-TPS-OB-S



MX-TPS-OB

Port diagrams



Max cable lengths with the available firmware versions

Resolution	Pixel clock rate	Cable type: CAT5e	Cable type: CAT7e
1024x768@60Hz	65 MHz	100 m / 160 m*	120 m / 180 m*
1280x720p@60Hz	73,84 MHz	100 m / 160 m*	120 m / 180 m*
1920x1080i@60Hz	74,25 MHz	100 m / 160 m*	120 m / 180 m*
1280x1024@60Hz	108 MHz	100 m / 160 m*	120 m / 180 m*
1920x1080p@60Hz	148,5 MHz	100 m / 150 m*	120 m / 170 m*
1920x1200@60Hz	152,9 MHz	100 m / NA*	120 m / NA*
1600x1200@60Hz	162 MHz	100 m / NA*	120 m / NA*
2560x1600@60Hz	268,3 MHz	70 m / NA*	80 m / NA*
1920x1080@120Hz	297 MHz	70 m / NA*	80 m / NA*
3840x2160@30Hz UHD	297 MHz	70 m / NA*	80 m / NA*
4096x2160@30Hz 4K	297 MHz	70 m / NA*	80 m / NA*

* with long reach firmware option. Long reach firmware supports pixel clock frequencies up to 148,5 MHz