



## ARCHITECTURAL AND ENGINEERING SPECIFICATION

### PRODUCT: MX-4TPS2-4HDMI-IB

#### FUNCTIONAL OVERVIEW

MX-4TPS2-4HDMI-IB is referenced in the MX-FR Series Modular Matrix Frames User Manual as a supported input-board option within the MX-FR modular matrix frame system. The manual provides HDMI Input and TPS Input technical specifications for MX-FR video input I/O boards, covering signal standards, HDCP compliance, supported resolutions, reclocking, and transported audio capabilities for these input types used in MX-FR frames.

#### VIDEO INPUTS

- Input type / quantity (on one board):
  - 4 × TPS2 inputs (TPS ports; HDBaseT-based operation)
  - 4 × HDMI inputs
- TPS link modes (TPS/TPS2 port parameterization): supports configurable TPS port modes including HDBaseT mode and Longreach mode (and additional modes as provided by TPS port settings)
- HDMI/DVI mode indication & deep-color forwarding (signal status/indication):
  - DVI/HDMI mode indication including HDMI deep color modes (e.g., 24/30/36 bpp referenced in port signal info)
- HDCP status indication/control context: HDCP state is reported as part of HDMI-3D/TPS-related port status/parameters (HDCP enabled/disabled/state shown in signal info)
- Maximum extension distances (TPS/TPS2 ports; Auto / Longreach):
  - Example entries from the maximum cable length table: 1920×1080p@60 (24 bpp): up to 100 m / 130 m on CAT5e AWG24 (Auto/Longreach)
  - 3840×2160@30 (UHD): 70 m / NA on CAT5e AWG24 (Auto/Longreach)

#### AUDIO CAPABILITIES

- HDMI input audio formats: 8 channel PCM; Dolby TrueHD, DTS-HD Master Audio 7.1
- TPS input audio formats: 8 channel PCM; Dolby TrueHD, DTS-HD Master Audio 7.1

## GENERAL

- Compliance: CE, UKCA
- EMC (emission): EN 62368-1:2024
- EMC (immunity): EN 55035:2017+A11:2020
- RoHS: EN 63000:2018
- Electrical safety: EN 60065:2002 + A1:2006 + A11:2008 + A2:2010 + A12:2011
- Laser safety: EN 60825-1:2014+A11:2021
- Warranty period: 3 years.

## DOCUMENT REVISION HISTORY

| Document | Release Date | Changes         | Checked by    |
|----------|--------------|-----------------|---------------|
| v1       | 2026-08-24   | Initial version | Tamas Forgacs |