



ARCHITECTURAL AND ENGINEERING SPECIFICATION

PRODUCT: MX-DVI-4K-IB

FUNCTIONAL OVERVIEW

MX-DVI-4K-IB is an MX-FR series input interface board for Lightware modular matrix frames. It provides eight DVI-I (digital) input connectors for connecting DVI/HDMI-format sources to the matrix. The board is identified in the system as an HDMI-3D type input port, supporting HDMI/DVI signal handling features such as HDCP capability, EDID emulation, and cable equalization as summarized in the MX-FR input board feature table. Configuration and monitoring are performed through the host matrix control interfaces.

VIDEO INPUTS

- Video inputs (per board):
 - 8 × DVI-I (D) connectors (digital pins only)
 - Note: Any DVI connector can be plugged in, but only digital pins are connected
- Board feature summary (per input board table):
 - Signal type: DVI 1.0, HDMI 1.4
 - HDMI capability: supported
 - HDCP capability: supported
 - EDID emulation: supported
 - Cable equalization: supported
 - Supported resolutions at 8 bits/color: up to 4096x2048@30Hz (4:4:4) or 4096x2048@60Hz(4:2:0);upto3840x2160@30Hz(4:4:4)or3840x2160@60Hz (4:2:0); 1920x1080@60Hz (4:4:4) up to 12 bits/color
- Port type classification in the system:
 - Listed under HDMI-3D Type Input Port (HDMI or DVI-I ports and 3D signal support)
- Status/parameter reporting:
 - DV/HDMI mode indication includes deep-color mode reporting (e.g., 24/30/36 bpp in status)
 - HDCP state indicated as enabled/disabled in status information

AUDIO CAPABILITIES

- Audio mode settings: No audio / HDMI audio passthrough / embed/de-embed options

POWERING

- Powered when installed in a compatible MX-FR modular matrix frame (board operating power is provided by the host frame).

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	2026-08-25	Initial version	Tamas Forgacs