



ARCHITECTURAL AND ENGINEERING SPECIFICATION

PRODUCT: MX-FR65R

FUNCTIONAL OVERVIEW

The MX-FR65R is a hybrid modular matrix router frame that enables building custom I/O sizes using interchangeable input and output interface boards. Its hybrid architecture allows routing between boards even when they use different connector types, so any input can be routed to any one or more outputs if the output interface is capable of transmitting the signal. The system supports flexible configurations for rental and installation signal transmission while maintaining matrix-based crosspoint routing and frame-based modular expansion.

I/O BOARD SPECIFICATION

- Max. input boards: 8
- Max. input ports: 65
- Max. output boards: 8
- Max. output ports: 65
- Maximum allowed Input boards: 8
- Output boards: 8
- INFO: The maximum number of input and output ports includes the Test input and Preview output port of the MX-CPU2 processor board.

POWERING

- Power supply option: Swappable PSU
- Supported power source: 100-240 V AC; 50/60 Hz
- Power supply unit(s) type: MX-PSU-1300 (former type: MX-PSU-850)
- Power consumption (max): 1500 W
- Heat dissipation: 6830 BTU/h
- AC power connector: IEC C14 receptacle
- INFO: The MX-FR65R is shipped with 2 power supply units and the rightmost PSU slot is covered with a blank metal plate.

CONTROL

- Front Panel Control
- Lightware Device Controller (LDC)
- Built-in Website
- Ethernet Control: Multiple simultaneous TCP/IP connections are available with simple ASCII based protocol for controlling and configuring the matrix router.
- USB Control: Easily accessible front panel USB configuration port.
- RS-232 or RS-422 Control: Simple ASCII-based protocol can be used for switching, preset calling, status request, etc.

GENERAL

- Rack mount: Yes, 15U high
- Enclosure material: 1 mm steel
- Dimensions in mm: W482 x D393 x H665
- Dimensions in inch: W19.0 x D15.5 x H26.2
- Weight of the frame (with MX-CPU2 board): 27.6 kg (60.8 lbs)
- Weight of the MX-PSU-850: 1.4 kg (3.1 lbs)
- Rack mounting: standard rack unit installation using supplied rack mounting ears (fixed to the frame).
- MX-FR65R mounting holes: 2x6 pcs.
- Supplied accessories:
 - IEC power cable
 - RS-232 straight serial cable
 - Safety and Warranty Info; Quick Start Guide
- Safety / electrical class: Class I apparatus construction (protective earth required).
- Compliance: CE; Safety: EN 60065:2014, Class I.
- Warranty period: 3 years.
- Cooling / ventilation requirement: ensure enough free space around the appliance; do not cover the appliance; leave ventilation holes free; never block or bypass ventilators (if any).



DOCUMENT REVISION HISTORY

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