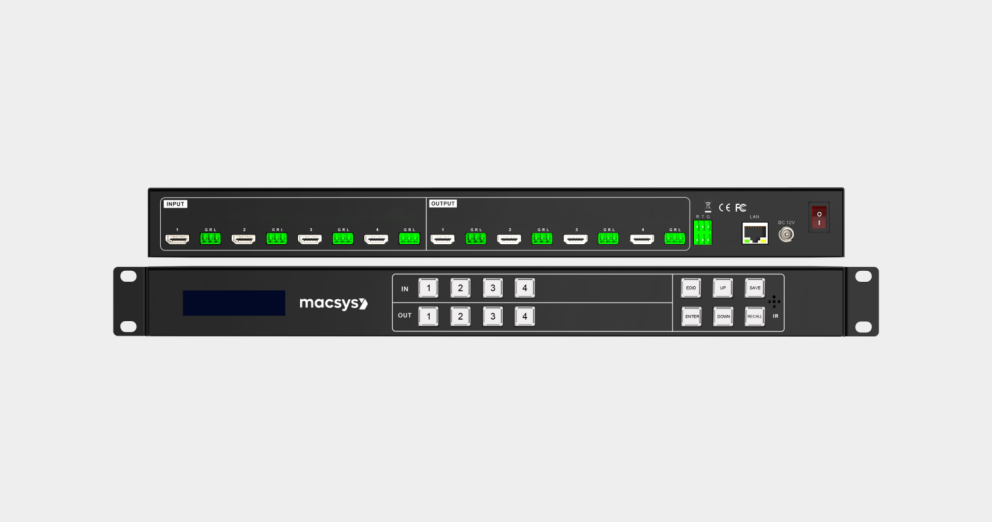
Datasheet

HMX-MS4 | 4K30 4x4 Seamless HDMI Matrix Switcher & Splicer with Audio, 4:4:4, EDID, IR, RS-232, and TCP/IP Control, Video Wall Support



Key features

- Seamless switching with zero perceptible delay between inputs and outputs
- Video wall splicing and matrix switching in a single integrated system
- Full support for 4K@30 Hz resolution with 4:4:4 color sampling
- Compatible with HDMI 1.4 and HDCP 1.4 / 2.0 protocols
- Built-in intelligent EDID management via DIP switches, RS-232, or web GUI
- Multi-protocol control: front panel buttons, IR remote, RS-232 commands, TCP/IP
- USB port for online firmware upgrade and future feature enhancements
- Hot-swappable design for easy maintenance and installation
- Real-time LED/LCD panel status display
- Power-off memory and protection functions to store last-known configuration
- Input equalization for long HDMI cable runs (up to 30 m input)

Product Overview

The Macsys HMX-MS4 4K30 4×4 Seamless HDMI Matrix Switcher & Splicer is a high-performance video distribution and switching solution that brings uncompromised picture quality, full digital switching, and flexible control options to professional AV systems. Engineered for demanding installations, it supports 4K@30 Hz resolution with 4:4:4 color sampling, ensures seamless transitions between inputs and outputs, and offers integrated video wall (splicing) capabilities. With advanced EDID management, IR, RS-232, and TCP/IP control, plus support for power-off memory and multi-mode control, the Macsys HMX-MS4 is ideal for applications such as command centers, digital signage networks, medical visualization, video conferencing, surveillance systems, broadcast, and large-scale multi-screen displays.

Its seamless switching and splicing features help maintain clean, glitch-free screen transitions, while robust control interfaces and remote configuration options make it easy to integrate into centralized systems. The Macsys HMX-MS4 stands out by combining matrix switching, splicing, and advanced control in a single 1U platform — reducing hardware footprint while maximizing flexibility.

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Technical Specification

Feature	Details
Input / Output Channels	4 inputs, 4 outputs (HDMI + 3.5 mm audio)
Maximum Supported Resolution	4K@30 Hz (3840×2160), 1080P 3D
Chroma Sampling	4:4:4
HDMI Version / Content Protection	HDMI 1.4, 3D TV Support
HDCP Support	HDCP 1.4 / 2.0 (backward compatible)
Control Interfaces	Front panel buttons, IR, RS-232, TCP/IP
EDID Management	Intelligent EDID via DIP, RS-232, Web GUI
Input Cable Lengths	Built in Equaliser, Supports input line length up to 30 m
Output Cable Length	≤ 15 m
Hot-Swap Support	Yes
Audio Input	4 x 3pin Phoenix Connector (Ground, Left, Right)
Audio Output	4 x 3pin Phoenix Connector (Ground, Left, Right)
Memory Function	Power-off memory / last configuration recall
Firmware Upgrade	Via USB (online upgrade)
Monitoring	LCD display shows system status & Information
External Power Supply	110–220 VAC
Operating Temperature	–20 °C to +70 °C
Operating Humidity	10% to 90% (non-condensing)
Weight	4.3 kg
Power Consumption	22 W
Dimensions (W × D × H)	480 × 370 × 44 mm (1U)
Certifications	CE, RoHS compliance

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