Datasheet

HMX-MS8-IPS | 4K30 4x4 Seamless HDMI Stacking Matrix Switcher & Scaler with Audio, EDID, TCP/IP Control, Video Wall Support



Key features

- High-performance 4x4 HDMI seamless switching with 4K@30Hz video resolution support
- Supports HDMI/DVI input and output and HDCP compliance
- One-to-many, many-to-many, multi-window, and video wall display functions supported
- Expandable matrix architecture enables cascading multiple units via fiber-optic interface
- Seamless switching technology eliminates black/blue screens, tearing, and flickering
- Advanced EDID management for consistent signal recognition and compatibility
- Power-off memory retention preserves configuration in power loss events
- Lip-sync correction maintains audio and video synchronization
- Visual control software offers centralized management of AV signals, scenes, and users
- Network configuration support with UDP/IP and TCP/IP control protocols
- Ideal for multimedia conference rooms, large display systems, and command centers

Product Overview

The Macsys HMX-MS8-IPS is a high-performance 4x4 HDMI seamless matrix switcher and scaler designed to deliver impeccable audio-video management for modern multimedia environments. Supporting resolutions up to 4K@30Hz with this switcher enables seamless one-to-many, many-to-many, multi-window, and video wall display capabilities. Engineered for scalability with expandable matrix architecture and fiber-optic multi-matrix cascading, it is ideal for large conference rooms, command centers, and large-screen display systems requiring reliable cross-regional AV signal transmission and processing.

This switcher excels in providing smooth seamless switching with zero black or blue screens and no flickering, supported by advanced EDID management and HDCP compliance. The integrated all-in-one visual control software simplifies centralized management of video/audio signals, scenes, and user controls via UDP/IP and TCP/IP protocols. With power-off memory retention and lip-sync correction technology, it assures consistent AV performance even in complex system setups.

Designed to integrate flawlessly with PCs, remote control systems, and external automation platforms, the Macsys HMX-MS8-IPS redefines AV matrix switching with superior ease of use, flexibility, and scalability — making it the perfect choice for professional multimedia applications needing seamless, high-resolution signal routing and video wall support.

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Technical Specification

Feature	Details
Matrix Size	4x4 HDMI
Input Interface	HDMI/DVI
Output Interface	HDMI/DVI
Maximum Resolution	4K@30Hz (3840x2160)
Video Wall Support	Yes, supports video wall display functions
Multi-window Display	Yes, supports multi-window display with preview monitoring
Seamless Switching	Yes (no black/blue screens, tearing, flickering)
EDID Management	Yes, advanced EDID management with HDCP compliance
Audio Input	3 Pin Poenix Connector, HDMI
Audio Output	3 Pin Poenix Connector, HDMI
Audio Processing	Yes, with lip-sync correction maintains AV synchronization
Memory Retention	Power-off memory retention
RS 232	4 x 3 Pin Poenix Connector
IO/IR Interface	4 x 3 Pin Poenix Connector
DIP Switch	For Encoder & Decoder switching
Control Interface	UDP/IP, TCP/IP control
Visual Control Software	All-in-one APP for AV and system control
Cascading Interface	Fiber-optic interface for multi-matrix cascading
Certifications	CE, RoHS compliance

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