

# Professional Matrix Switcher

## MXS Series

### INTRODUCTION

This high-definition seamless hybrid card matrix is a professional matrix all-in-one machine that supports various audio and video signal switching and distribution, integrated network central control, and video wall functions. It supports up to 8~36 signal inputs and 8~36 signal outputs. The audio and video matrix uses a pure hardware high-speed matrix switching chip with high integration, stable system, no signal compression, no loss, and no delay. The advanced all-digital signal processing technology can ensure the signal is processed without distortion and restore the best quality picture to the display terminal.

The modular network central control integrates a variety of control interfaces and intelligent control modules that can be directly called by users, and can directly control other peripheral devices. At the same time, the built-in video wall function can realize any splicing mode within the range of 8/16/36 total output channels, providing a one-stop solution for the distribution and processing of various formats of video signals in various industries.



**MXS08**



**MXS16**



**MXS36**

**MXS Series**

## FEATURES

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- Compliant with HDCP 2.2 specification
- HDMI maximum bandwidth 18Gbps
- Video resolution supports up to 4K60 RGB 4:4:4 24bit, compliant with HDMI 2.0b specification
- Supports 8/16/36 video inputs, 8/16/36 video outputs
- Supports HDMI, DVI-U (DVI/VGA/YPbPr/CVBS), VGA, 3G/HD/SD-SDI, HDBaseT and fiber input
- Supports HDMI, DVI-U (DVI/VGA/YPbPr/CVBS), VGA, 3G/HD/SD-SDI, HDBaseT and fiber output
- Supports the highest resolution of 1920x1200p60Hz (2K series card), 3840x2160p60Hz (4K series card)
- Supports seamless switching, no tearing, no black screen or flickering during switching
- Supports video wall splicing wall function
- The splicing wall is based on Gen-Lock technology, the image delay between any output channels is less than 0.1 milliseconds, and the image is tear-free
- Any splicing mode within the total output range of 8/16/36 can be achieved
- Standard HDMI cable 4K60 input and output are 5 meters each, 4K30 input and output are 10 meters each, 1080p60 input and output are 15 meters each
- Uses pure hardware high-speed matrix switching chip, with high integration and more stable system
- Up to 64 scene presets can be called
- Intelligent EDID management, support EDID COPY or built-in EDID
- Support panel buttons, IR, RS-232, TCP/IP, Web GUI and host computer software control
- Built-in intelligent network central control, pre-made user interface
- Silent fan design, low noise, stable performance, stable operation in harsh environments
- AC power interface, built-in power module
- Standard rack size design, easy installation

## INPUT CARD



2K HDMI



2K HDBaseT 70M



2K HDBaseT 100M



2K HDBaseT 150M



2K SDI



2K VGA



2K DVI



2K FIBER



4K HDMI



4K HDBaseT 70M



4K HDBaseT 100M



4K HDBaseT 150M



4K FIBER

## OUTPUT CARD



2K HDMI



2K HDBaseT 70M



2K HDBaseT 100M



2K HDBaseT 150M



2K SDI



2K VGA



2K DVI



2K FIBER



4K HDMI



4K HDBaseT 70M



4K HDBaseT 100M



4K HDBaseT 150M



4K FIBER

## SPECIFICATIONS

| Model                 | MXS Series Main Chassis                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------|
| <b>Technical</b>      |                                                                                              |
| HDMI Compliance       | HDMI 1.4 (2K series card), HDMI 2.0b (4K series card)                                        |
| HDCP Compliance       | HDCP 1.4 (2K series card), HDCP2.2 (4K series card)                                          |
| Video Bandwidth       | 600MHz/18Gbps                                                                                |
| Video Resolution      | 1920x1200p60Hz (2K series card) 3840x2160p60Hz 4:4:4 (4K series card)                        |
| Color Depth           | 2K series card: 8/10/12-bit (1080p60Hz)                                                      |
|                       | 4K series card: 8/10/12-bit (4K30Hz); 8-bit (4K60Hz 4:4:4)                                   |
| Color Space           | RGB, YCbCr 4:4:4 / 4:2:2 / 4:2:0                                                             |
| Audio Formats         | HDMI audio: LPCM 2.0 / 5.1 / 7.1CH                                                           |
|                       | Analog audio: LPCM 2.0CH                                                                     |
| ESD Protection        | IEC 61000-4-2:                                                                               |
|                       | ± 8KV (Air-gap discharge) & ± 4KV (Contact discharge)                                        |
| <b>Connections</b>    |                                                                                              |
| Input                 | 2 x Input card (8x8 Matrix); 4 x Input card (16x16 Matrix); 9 x Input card (36x36 Matrix)    |
| Output                | 2 x Output card (8x8 Matrix); 4 x Output card (16x16 Matrix); 9 x Output card (36x36 Matrix) |
| Control               | 1 x Main control card                                                                        |
| <b>Mechanical</b>     |                                                                                              |
| Housing               | Metal Enclosure                                                                              |
| Color                 | Black                                                                                        |
| Dimensions            | 8x8 Matrix: 483mm (W) × 377mm (D) × 89mm (H)                                                 |
|                       | 16x16 Matrix: 483mm (W) × 379mm (D) × 133mm (H)                                              |
|                       | 36x36 Matrix: 483mm (W) × 378mm (D) × 266mm (H)                                              |
| Weight                | 8x8 Matrix: 5.95kg (No input/output cards are included)                                      |
|                       | 16x16 Matrix: 8.62kg (No input/output cards are included)                                    |
|                       | 36x36 Matrix: 15.4kg (No input/output cards are included)                                    |
| Power Supply          | AC 100-240V, 50/60Hz                                                                         |
| Power Consumption     | 8x8 Matrix: 40W~190W (Match with different input/output cards)                               |
|                       | 16x16 Matrix: 80W~320W (Match with different input/output cards)                             |
|                       | 36x36 Matrix: 200W~840W (Match with different input/output cards)                            |
| Operating Temperature | 0°C ~ 40°C / 32°F ~ 104°F                                                                    |
| Storage Temperature   |                                                                                              |
| Relative Humidity     | -20°C ~ 60°C / -4°F ~ 140°F                                                                  |
|                       | 20~90% RH (no condensation)                                                                  |