Datasheet

SMX-144 | UHD Standard Hybrid Mix Modular Matrix Switcher 144x144



Key features

- Supports ultra-high-definition 4Kx2K video resolution.
- Seamless switching: no black screens, no jitter, uninterrupted signal.
- Audio de-embedding for independent routing of embedded audio.
- Modular architecture: one card supports 2–4 channels for flexible expansion.
- Multiple control options: RS-232, TCP/IP, front panel, and remote control.
- Per-channel scaler adjustment for perfect video scaling.
- Cost-effective design delivering premium UHD performance.
- 7-inch HD touch screen for intuitive on-device control.

Product Overview

The Macsys SMX-144 UHD Standard Hybrid Modular Matrix Switcher (144x144) is a high-performance, ultra-flexible switching solution designed for next-generation 4K video applications. Engineered for seamless integration of multiple signal formats, it supports HDMI, DVI, VGA, HDBaseT, 3G-SDI, Fiber, CVBS, YPbPr, and audio with exceptional stability and zero-latency switching.

With its modular design, users can configure input and output modules as needed, making it a cost-effective yet scalable choice for diverse environments such as control rooms, conference centers, education, broadcasting, and enterprise AV systems. Featuring advanced image processing technology, the SMX-144 ensures smooth, jitter-free signal switching without black screens, while its dual power redundancy and multiple control interfaces (7 Touch Front Touch Panel,RS-232, TCP/IP, panel, remote) guarantee reliability and operational convenience.

The SMX-144 combines seamless UHD video switching, audio de-embedding, and modular expandability into a single cost-effective unit, making it one of the most reliable and scalable hybrid matrix switchers in its class.

Technical Specification

Feature	Details
Card Slot	36 input slots, 36 output slots, One card has 4 ports
Input Modules	HDMI-4K-IN2, HSDA-IN2, 3G-SDI-IN2, HDBaseT-IN2, FIBER-IN2, HDMI-S-IN2, PS-IN2
Output Modules	HDMI-4K-OUT2, HSDA-OUT2, 3G-SDI-OUT2, HDBaseT-OUT2, FIBER-OUT2, PS-OUT2
Signal Formats	CVBS, YPbPr, AUDIO, HDMI, DVI, VGA, HDBaseT, 3GSDI, Fiber
Max Resolution	4K/2K
Switching Bandwidth	10.2 Gbps
Seamless Switching	Yes, no black screen, no jitter
Audio I/O	Yes – audio input and output
Scaling	Each input channel supports scaler adjustment
Flexible Configuration	Yes – one card, multiple signals, modular design
Control Screen	7-inch HD touch screen (Front Panel)
Network Control	TCP/IP, 2 x RJ-45 10/100 Base-T Ethernet
Control Interfaces	2 x RS-232, 2 x TCP/IP, Front Panel, Remote
Serial Protocol	RS-232 (Baud Rate: 115200, Data Bit: 8, Stop Bit: 1, No parity)
Serial Connector	9-Pin D-Sub (DE9F) – Pin 3=TX, Pin 2=RX, Pin 5=GND
Redundancy	Pluggable Dual Redundant power supply
Power Supply	100V–260V AC, 50/60Hz, international adaptive, Dual Power Supply (Optional)
Operating Temperature	0°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Dimensions (W×H×D)	483*1199*370 mm (27U)
Certifications	CE, RoHS compliance

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