Datasheet

SMX-18 | UHD Standard Hybrid Mix Modular Matrix Switcher 18x18



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-18 UHD Standard Hybrid Modular Matrix Switcher (18x18) 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-18 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-18 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	9 input slots, 9 output slots, One card has 2 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)	483×264×350 (5U)
Certifications	CE, RoHS compliance

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