

FMX-80MS | UltraScale Fiber Matrix Switcher 20SLT



Key features

- Seamless HD Switching: Smooth transitions with zero black frames or jitter.
- Non-Compressed 1080P@60Hz: High-definition video without loss of quality.
- Flexible Input & Output: Per-module scaling and independent output resolution.
- Fiber-Optic Design: Robust interference immunity and long-distance transmission.
- Deep Color Support: 24/30/36/48-bit YUV 4:2:2 and 4:4:4 for vibrant visuals.
- Wide Signal Compatibility: Supports CVBS, YPbPr, VGA, HDMI, 3G-SDI, DVI, and audio.
- Extended Transmission Range: Fiber links up to 80 km for enterprise-scale AV networks.

Product Overview

The FMX-80MS Ultra Scale Fiber Matrix Switcher 20SLT from the FMX series is a high-performance 80×80 optical fiber matrix switcher designed for mission-critical AV and signal distribution applications. Engineered for environments demanding maximum system stability, security, and reliability, it seamlessly integrates advanced signal conversion technology with all-fiber optical transmission.

This matrix switcher supports a broad range of signal formats, including CVBS, YPbPr, VGA, HDMI, 3G-SDI, DVI, and audio, enabling flexible system integration. Utilizing non-compressed image processing, it delivers pristine, jitter-free video output over long distances—up to 80 km via fiber optics—without any loss in quality or black frames.

Each input module allows scaling configuration, and each output module supports customizable resolutions, providing maximum flexibility in professional AV setups. Its robust fiber-optic design ensures strong immunity against electromagnetic interference, making it ideal for control rooms, broadcast centers, large conference halls, and enterprise-grade AV infrastructures.

Specifically designed in the 80×80 configuration, the FMX-80MS meets the requirements of large-scale AV systems, delivering high reliability, seamless switching, and enterprise-level performance for complex AV distribution environments.

Technical Specification

Feature	Details
Description	80×80 Fiber Matrix Switcher
Input/Output Card Slot	10 / 10
Input Modules	FMX-IN8-1500, FMX-IN8-10K
Output Modules	FMX-OUT8-1500, FMX-OUT8-10K
Supported Signal Types	CVBS, YPbPr, VGA, HDMI, 3G-SDI, DVI, Audio
Transmission Medium	Single-mode / Multi-mode Fiber
Transmission Distance	1.5 km, 10 km (Upgradeable to 80 km)
Video Resolution	1080P@60Hz, Non-compressed
Deep Color Support	24/30/36/48-bit YUV 4:2:2 / 4:4:4
Bandwidth	10.2 Gbps
Scaling / Resolution Control	Each input supports scaling; each output supports independent resolution customization
Switching Technology	Seamless Switching, zero black frames, no jitter
Serial Control Protocol	RS-232 (Baud rate: 115200, Data bits: 8, Stop bit: 1, Non-parity)
Serial Port Connector	9-pin D-sub (DE9F) Jack: 3=TX, 2=RX, 5=GND
Network Control Protocol	TCP/IP
Network Connector	RJ45, 10/100Base-T Ethernet
Power Specification	AC 100–240V, 50/60Hz
Operating Temperature	–20°C ~ 60°C
Storage Temperature	0°C ~ 40°C
Dimensions (W×D×H)	440 × 335 × 374 mm (8U)
Certifications	CE, RoHS compliance



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