Datasheet

FMX-288MS | UltraScale Fiber Matrix Switcher 36SLT



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-288MS Ultra Scale Fiber Matrix Switcher 36SLT from the FMX series is a high-performance 288×288 optical fiber matrix switcher designed for mission-critical AV and signal distribution applications. Engineered for environments demanding maximum system stability, security, and reliability, it combines advanced signal conversion technology with all-fiber optical transmission for robust, high-fidelity performance.

This matrix switcher supports a wide range of signal formats, including CVBS, YPbPr, VGA, HDMI, 3G-SDI, DVI, and audio, enabling flexible system integration in very large-scale AV environments. Utilizing non-compressed image processing, it delivers pristine, jitter-free video output over long distances—up to 80 km via fiber optics—ensuring no loss of quality or black frames.

Each input module allows scaling configuration per input, while each output module supports customizable resolutions per port, providing ultimate flexibility for professional AV setups. Its robust fiber-optic design guarantees strong immunity against electromagnetic interference, making it suitable for massive control centers, broadcast facilities, stadiums, convention centers, and enterprise-grade AV infrastructures.

Specifically designed in the 288×288 configuration, the FMX-288MS meets the demands of ultra-large-scale AV systems, offering seamless switching, high reliability, and professional-grade performance for complex, high-density signal distribution applications.

Technical Specification

Feature	Details
Description	288×288 Fiber Matrix Switcher
Input/Output Card Slot	18 / 18
Input Modules	FMX-IN16-1500, FMX-IN16-10K
Output Modules	FMX-OUT16-1500, FMX-OUT16-10K
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 × 666 × 374 mm (15U)
Certifications	CE, RoHS compliance

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