



## MTX3-16-M

16x16 8K Flexible Modular Matrix



MTX3-16-M is an intelligent and high performance 16x16 modular matrix for switching and distribution of multi-format audio-visual signals. The chassis includes a CTRL central control card with secured LAN connectivity for remote management and control, and has eight card slots for flexible insertion of modular matrix cards, accommodating matrix cards with quad or dual ports of either input or output multi-format signals

### FEATURES

**High Resolution Audio-Visual Experience** - MTX3-16-M is a professional, 8K-ready matrix for switching multi-format AV signals. The modular matrix cards support high 4K60 4:4:4 multi-format AV signal distribution and the matrix central control is ready for 8K audio-visual signal switching, enabling future upgrades to 8K-capable matrix cards

**HDMI™ Signal Switching** - HDCP 2.2 compliant, supporting deep color, x.v.Color™, CEC, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D as specified by the HDMI 2.0 standard

**I-EDIDPro™ Kramer Intelligent EDID Processing™** - Intelligent EDID management of each input port by a processing algorithm that manages locking and pass-through and ensures plug & play operation for HDMI sources and display systems

**Robust Signal Distribution** - Kramer Equalization & re-Klocking™ technology professionally rebuilds switched digital signals, preparing them for distribution over long-distance copper and fiber optic cables

**Comprehensive Matrix Control Options** - Control can be remote, using the Kramer Control application or locally using the touch screen.

A user-friendly web-UI provides high-level remote service control.

Locally, the RS-232 service port can be used for high-level Protocol 3000 APIs and there are front panel control buttons and an LCD screen which can perform switching operations, storage and recall of switching presets and configuration switching

**Security-certified Operation** - The matrix is certified for OWASP-10 (Open Web Application Security Project) standard compliance, ensuring secured web-UI user access and communication, and secured remote operation and management

**Simple Professional Management** - Compatibility with the Kramer enterprise management platform enables remote matrix operational management, including matrix automatic discovery and configuration, remote matrix switching operations, matrix and card diagnostics and firmware upgrade management

**Cost-Effective Maintenance** - Front-panel LED indicators, an LCD display and a low-noise field-replaceable fan cooling unit for easy matrix maintenance and troubleshooting. Local firmware upgrades can be performed via a USB port and a reset button is provided for convenient, lasting, field-proven deployment

**Easy Installation** - The compact 3U-only 19" enclosure is suitable for rack mounting with a universal 100-240V AC power supply. PoE (Power over Ethernet) can be provided over HDBT cables to remote connected end-points, eliminating the need for local mains powering

**Any Input/Output Mix** - Flexible matrix card slot support for either input or output cards service. Mix setup and deployment flexibly to match usage needs

**Multi-format Distribution** - The matrix card range supports multiple market-available audio-visual signals, such as HDMI™, VGA, and SDI, with analog and digital audio signals. Kramer Core™ technology enables long-distance signal distribution over standard HDBaseT copper cables and fiber optic infrastructure wiring

**Independent Signal Switching** - Modular matrix switching is fully non-blocking, where any matrix input signal can be distributed to any single or multiple output ports

**Market-standard Interoperability** - The matrix complies with HDBaseT standards and interoperates with market available HDBaseT-certified end-points. For best reach and high-resolution distribution performance, use Kramer HDBaseT cables, and Kramer transmitter and receiver end-points



## TECHNICAL SPECIFICATIONS

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Ports	Control Card
	1Gbp Ethernet On an RJ-45 female connector for matrix LAN connection
	100Mbps Ethernet On an RJ-45 female connector for matrix service
	RS-232 On a 3-pin terminal block for local service
	RS-232 Baud Rate 9600/19200/38400/57600/115200 (default)
Backplane Data Rate Per Port	RS-232 Character Frame 8 bit / No parity / 1 Stop bit / ASCII
	Chassis
	USB Mini-USB connector for firmware upgrade
	AV 50Gbps
	Ethernet 1Gbps
Card Slots	Central Control 1
	I/O 8
Modules	Power 2
	Fan 1
Power	Consumption: 100–240V AC, 50/60Hz, 2.2A (Max)
	Source: 100–240V AC, 50/60Hz
Environmental Conditions	Storage Temperature: –40° to +70°C (–40° to 158°F)
	Humidity: 10% to 90%, RHL non-condensing
	Cooling Forced air, 3 fans
Regulatory Compliance (Standards Compliance)	Safety CE, FCC, UKCA
	Environmental RoHs and WEEE
Accessories	Included: 2 Power cords
Product Dimensions	19" x 7.24 x 2U (43.6cm x 18.40cm x 8.80cm) W, D, H
Product Weight	7.5kg (16.4lbs) approx
Shipping Dimensions	58.00cm x 53.50cm x 21.50cm (22.83" x 21.06" x 8.46" ) W, D, H
Shipping Weight	9.3kg (20.5lbs) approx



