MMA10G-IPX-128 High Bandwidth 10GE Switch Fabric



CONNECT. COLLABORATE. SHARE RESOURCES. MANAGE.

Evertz' MMA-10G is a network-based AV distribution solution constructed using Evertz' award winning SDVN (Software Defined Video Network) architecture. MMA-10G utilizes a highly reliable 10GE infrastructure for routing video and audio and offers unprecedented scalability and reliability.



Key Features

- Low latency switch fabric, non-intrusive delay properties
- Deterministic switch layer control API
- Support for "in-band" control data + high bandwidth data
- Fully integrated into MAGNUM-AV system controller
- Point-to-point and multi-point signal distribution inside the facility
- SNMP enabled for complete fault monitoring
- QSFP+ ports supporting 1GbE/10GbE fiber

Reliable and Deterministic Routing

EvertzAV's MMAIOG-IPX-128 switch fabric has been developed purpose built for high capacity, low latency data routing with deterministic control essential for routing high resolution video and audio. Unlike other "off the shelf" network appliances which require extensive IT knowledge and programming experience, the MMAIOG-IPX-128 is a plug-and-play IOGbE switch fabric, customized to work seamlessly within a professional AV environment for the purpose of routing high bandwidth video and audio data.

Flexibility and Ease of Control

The MMA10G-IPX-128 is based on an integrated multicast label switching architecture that unlocks the advantage of 10GbE

without sacrificing flexibility and ease of control necessary for high quality video and audio routing over LAN and WAN topologies.

Fully Integrated with Evertz MAGNUM-AV

Fully integrated with EvertzAV's MAGNUM-AV controller, the MMA10G-IPX-128 is controlled using the same control methods of traditional baseband routers. Traditional control surfaces such as graphical user interfaces and hard button panels all can be used to control the MMA10G-IPX-128 network infrastructure.

Employing Leading Edge Technology

The MMA10G-IPX-128 employs QSFP+ technology whereby each QSFP port supports 40Gbps and a break out is used to obtain 4 x 10Gbps links per port. The MMA10G-IPX-128 is a hot-swappable device, which allows for the hardware to be replaced without having to re-cable, saving hours of downtime.

Simple and Secure Networking

EvertzAV's MMA10G-IPX-128 provides reliable security and eliminates the worry of network loops and intruders on the network through its highly configurable ports. Each port on the MMA10G-IPX-128 is controlled via MAGNUM-AV, and therefore only authorized devices and traffic are permitted on the network. The MMA10G-IPX-128 can be monitored using SNMP using EvertzAV's VistaLINK Pro NMS software.





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Contents Subject to Change Rev. 03 North America/International AV Sales avsales@evertz.com +1 905-335-3700

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Specifications

Ports	128 10GE/1GE QSFP+ ports
Latency	2.5 μs
Routable Multicasts	512
Control Protocols	SNMP and Quartz/Synergy
Control System	MAGNUM-AV
Control Interface	Ethernet control port via frame controller
Rack Units	3RU
Number of Slots	4 slots
Power	270 W
Other Features	Deterministic multicast routing based on the incoming port Input multicast detection Layer 2 protocol support, enabling support of "in-band" control data Per port bandwidth limiting Traffic monitoring IGMPv2, v3 with SSM for inbound stream subscription, and on-demand forwarding to downstream device within microseconds of request Operates over multiple networks (dark fiber, Ethernet, IP/MPLS)

Ordering Information

MMA10G-IPX-128	128x10GbE port integrated switch fabric
Ordering Options	

MMA10G -P25G16	License to enable 16x 25G ports on MMA10G -IPX-128
MMA10G -P25G32	License to enable 32x 25G ports on MMA10G -IPX-128
MMA10G - P25G48	License to enable 48x 25G ports on MMA10G -IPX-128
MMA10G -P25G64	License to enable 64x 25G ports on MMA10G -IPX-128
MMA10G-IPX-128-CC-SW	License to enable NIAP Common Criteria Secure mode of operation on MMA10G-IPX-128

Available Accessories

ev3-FR	3RU frame (5 slots), requires ev3-FC
ev3-FC	Frame controller for ev3 frames
ev6-FR	6RU frame (15 slots) , requires ev6-FC
ev6-FC	Frame controller for ev6 frames
+PS	Redundant PS for ev3-FR and ev6-FR

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