MMA10G-EXE Series
High Capacity Switch Fabrics

MMA10G
NETWORK BASED AV DISTRIBUTION

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.

The MMA10G-EXE is the core of EvertzAV's SDVN solutions. The MMA10G-EXE series of high capacity switch fabrics enables IP transition with unmatched flexibility and scalability. The MMA10G-EXE provides up to 102Tb/s (in 36RU) of switch capacity with up to 2,048x 25GbE ports in a single frame. The 26RU and 16RU frames have switching capacities of 51Tb/s (1,024x 25GbE ports) and 25Tb/s (512x 25GbE ports) respectively when using 25GbE.

Designed for High Capacity Switching

The MMA10G-EXE supports up to 102Tb/s of switching capacity. By implementing an independent data path, the MMA10G-EXE supports 10GbE, 25GbE, and 100GbE interfaces that can carry multiple uncompressed video signals.

Extensive Redundant Crosspoint Protection

The MMA10G-EXE supports manual or automatic re-routing of individual signals with quality verification prior to switching to the redundant path.
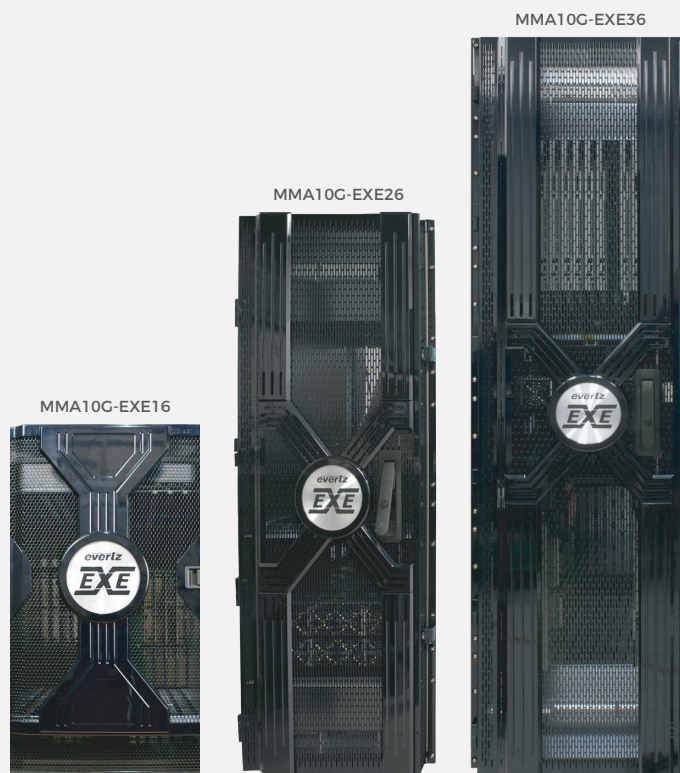
I/O Flexibility

The inspired modular approach of the MMA10G-EXE's design provides excellent in-service expansion capabilities. Using line cards that have blocks of 64x 10GbE/25GbE ports, the MMA10G-EXE can seamlessly scale from a 64x 10GbE/25GbE port to a 2,048x 10GbE/25GbE port switch. The MMA10G-EXE supports varying types of QSFP port interfaces. For aggregation links between EXEs, the MMA10G-EXE supports 100GbE interfaces.

Scalability

The MMA10G-EXE is available in 36RU, 26RU, and 16RU configurations. In the 36RU configuration, the MMA10G-EXE is capable of supporting up to 12,288 uncompressed 1080p signals.

NIAP Listed and Common Criteria Certified

EvertzAV's MMA10G-EXE is available as a National Information Assurance Partnership (NIAP) listed and Common Criteria certified series of products. The evaluation for the MMA10G-EXE, was carried out in accordance with the Common Criteria Evaluation and Validation Scheme (CCEVS). The criteria against which the MMA10G-EXE was evaluated are described in the Common Criteria for Information Technology Security Evaluation, Version 3.1 Rev 4. For more information about NIAP and Common Criteria certification, visit the NIAP and Common Criteria websites.

MMA10G-EXE Series

MMA10G-EXE36

MMA10G-EXE26

MMA10G-EXE16

av.evertz.com

Contents Subject to Change
Rev. 05

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Specifications

	MMA10G-EXE16	MMA10G-EXE26	MMA10G-EXE36
Height	28in (711.2mm) 16RU	45.5in (1155.7mm) 26RU	63in (1600.2mm) 36RU
Width	19in (483mm) 19in rack mount	19in (483mm) 19in rack mount	19in (483mm) 19in rack mount
Depth	32in (813mm) over hinges and QSFP	32in (813mm) over hinges and QSFP	32in (813mm) over hinges and QSFP
Weight	255 lbs (115 kg) fully loaded	650 lbs (295 kg) fully loaded	1100 lbs (499 kg) fully loaded
Operating Temperature	32˚ to 104˚ F (0˚ to 40˚ C)	32˚ to 104˚ F (0˚ to 40˚ C)	32˚ to 104˚ F (0˚ to 40˚ C)
Cooling	Fan cooled, front to top	Fan cooled, front to top/bottom/sides	Fan cooled, front to top/bottom/sides
# of Interfaces	16x QSFP28 cages per line card module	16x QSFP28 cages per line card module	16x QSFP28 cages per line card module
Control	2x 1GbE RJ-45 SFP	2x 1GbE RJ-45 SFP	2x 1GbE RJ-45 SFP
Electrical Configuration	Up to 4 load sharing PS modules in 1RU FR. Up to 8x FRs can be used for redundancy.	Up to 4 load sharing PS modules in 1RU FR. Up to 8x FRs can be used for redundancy.	Up to 4 load sharing PS modules in 1RU FR. Up to 8x FRs can be used for redundancy.
Electrical Connection	2x inputs per frame	2x inputs per frame	2x inputs per frame
PS Input Voltage	Auto-ranging 200 | 240V nominal, 50/60Hz	Auto-ranging 200 | 240V nominal, 50/60Hz	Auto-ranging 200 | 240V nominal, 50/60Hz
PS Maximum Input Current	15 A (@ 200V AC) per PS @ 2500W load	15 A (@ 200V AC) per PS @ 2500W load	15 A (@ 200V AC) per PS @ 2500W load
PS Output Voltage	48 VDC	48 VDC	48 VDC
PS Output Power	2500 W per PS module	2500 W per PS module	2500 W per PS module
PS Output Voltage	48 VDC	48 VDC	48 VDC
FR Typical Input Power	4.6kW for fully loaded 512x ports of 25GbE full bandwidth	9.5kW for fully loaded 1024x ports of 25GbE full bandwidth	18.5kW for fully loaded 2048x ports of 25GbE full bandwidth

Ordering Information

MMA10G-EXE16-XXX	High density scalable switch fabric: 16RU with up to 512 ports in 64 port increments
MMA10G-EXE16-XXX-R	Same as above but with redundancy – XC, FC
MMA10G-EXE16-XXX-R-CC	Same as –R above but Common Criteria version
MMA10G-EXE26-XXX	High density scalable switch fabric: 26RU with up to 1024 ports in 64 port increments
MMA10G-EXE26-XXX-R	Same as above but with redundancy – XC, FC
MMA10G-EXE26-XXX-R-CC	Same as –R above but Common Criteria version
MMA10G-EXE36-XXX	High density scalable switch fabric: 36RU with up to 2048 ports in 64 port increments
MMA10G-EXE36-XXX-R	Same as above but with redundancy – XC, FC
MMA10G-EXE36-XXX-R-CC	Same as –R above but Common Criteria version

Available Accessories

MMA10G-QSFP-MM-A	MMA10G QSFP module multi-mode (850nm). Provides up to 4x 10GE ports using QSFP fiber breakout cable.
MMA10G-QSFP-LR	MMA10G QSFP module single-mode (1310nm). Provides up to 4x 10GE ports using QSFP fiber breakout cable.
MMA10G-MTP-LC8-SM10	MTP/APC to 8x LC/UPC single-mode, 10m fiber cable. To be used with MMA10G-QSFP-LR module for adapting MTP connector to 8x LC, or 4x 10GE LC connections.
MMA10G-MTP-LC8-MM10	MTP/APC to 8x LC/UPC multi-mode 10m fiber cable. To be used with MMA10G-QSFP-MM-A module for adapting MTP connector to 8x LC, or 4x 10GE LC connections.
MMA10G-MTP-MTP-SM10	MTP/APC to MTP/APC single-mode 10m fiber cable. To be used with MMA10G-QSFP-LR module.
MMA10G-MTP-MTP-MM10	MTP/UPC to MTP/UPC multi-mode 10m break out cable. To be used with MMA10G-QSFP-MM-A module.
MMA10G-QSFP-SFP-ADP	Adaptor for converting QSFP port to SFP+. Can be used in MMA10G-EXE and IPX products that use QSFP ports. SFP+ modules sold separately.

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