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

- One HDMI input and one HDMI output (HDMI Type A)
- Analog audio input and output, two USB 2.0 ports, two USB HID ports, and one serial port
- Resolution up to 4096x2160p @ 60 Hz
- Standalone device with low profile form factor
- Customizable EDID tables
- Ultra low latency transport over 10GE links
- Full integration with MAGNUM-AV management system
- Web-based configuration

Standalone 10GE Transceiver

The MMA10G-TRXS4K-USB2 standalone 10GE transceiver gateway is a single device that can either be used as a receiver or a transmitter or both at the same time. Leveraging the bi-directional capabilities of 10GE, MMA10G-TRXS4K-USB2 can be used to both send and receive HDMI, audio, USB HID, and USB 2.0 data. Additionally, an RS-232/RS-422 port is available for serial communication, transport, and control. Reduce decision making at design time by simply adding up the number of devices that need to either send or receive as the MMA10G-TRXS4K-USB2 can be used for any connection point.

Fully Integrated with Evertz' MAGNUM-AV Controller

The MMA10G-TRXS4K-USB2 is a managed element of the MMA-10G network which is controlled by MAGNUM-AV. MAGNUM-AV simplifies management and control over the system and allows for simple user control using EvertzAV's virtual control panels and touch friendly graphical user interfaces (VUE) or via third-party control systems.

Reliable AV Transport

Using 10Gbps Ethernet the MMA10G-TRXS4K-USB2 both encapsulates and de-encapsulates video, audio, serial, USB HID, and USB 2.0 at the same time. The MMA10G-TRXS4K-USB2 has two HDMI ports, a receive and transmit, and supports resolutions of up to 4096x2160p @ 60 Hz. The MMA10G-TRXS4K-USB2 supports both embedded audio on HDMI as well as a discrete audio input. A USB connection is provided to supply HID device connectivity over the MMA-10G network. No compression is used, therefore the video and audio remain at their highest quality with no latency upon delivery.

EDID and Scaling

The MMA10G-TRXS4K-USB2 utilizes high quality scaling engines that allow it to process and scale video to match any input or output resolution. The scaling engines also allow for video cropping when using the MMA10G-TRXS4K-USB2 for wall applications. Through its support for EDID, the MMA10G-TRXS4K-USB2 will display the content correctly by setting and reading EDID tables to ensure the smoothest handoff between devices.
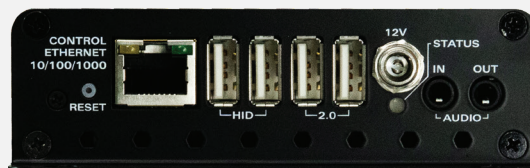
Remote Monitoring

The MMA10G-TRXS4K-USB2 can be remotely monitored via the SNMP protocol using Evertz' award winning VistaLINK Pro NMS software suite. VistaLINK allows a single user from a single workstation complete visibility into the operation of the MMA-10G ecosystem. Users can prevent issues from becoming outages quickly and easily using Evertz' VistaLINK Pro.

Front | Rear

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Contents Subject to Change
Rev. 01

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Specifications

Video Inputs	1 HDMI (type A)
Video Outputs	1 HDMI (type A)
Supported Resolutions	Up to 4096x2160p @ 60 Hz
Audio Inputs	1 stereo unbalanced analog (3.5mm)
Audio Input Impedance	25K Ω
Audio Input Level	Line level
Audio Outputs	1 stereo unbalanced analog (3.5mm)
Audio Output Impedance	4 to 8 Ω
Audio Output Level	Line level
USB	2 HID device ports (type A) 1 HID host port (micro type B) 2 USB 2.0 ports (type A) (can be software defined as host or client)
Control Port (Out-of-Band)	10/100/1000 BASE -T RJ45 Ethernet Port (IEEE 802.3)
Transport Port	1 SFP+ cage (see available accessories)
RS-232/RS-422	M5 DIN connector (optional M5 to DB9 converter cable available – see Available Accessories)
Output Scaling	Yes
HDMI Audio	LPCM (up to 8 channels) Passthrough support for Dolby Digital®/AC-3, Dolby Digital EX, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS®, DTS-ES, DTS-HD High Res, DTS-HD Master Audio, DTS:X
SNMP Support	Yes
In-Band Control	Yes
Control System	MAGNUM-AV
Web-Based Configuration	Yes
Security Compliance	Tested against US Department of Defense (DoD) Security Technical Implementation Guides (STIGs)
DC Input Voltage	12VDC via supplied power adapter
Power Supply	100-240V / 47-63Hz AC input; 12VDC / 5A output
Power Consumption	TBD
Ambient Operating Temperature	32˚ to 104˚ F (0˚ to 40˚ C)
Relative Humidity	10% to 90% RH (non-condensing)
Dimensions (H x W x D)	1.30in x 4.13in x 7.48in (33mm x 105mm x 190mm)
Weight	TBD

Ordering Information

MMA10G-TRXS4K-USB2	Standalone 4K60 10GE transceiver: single HDMI input, single HDMI output, analog audio, RS-232/422 serial port, SFP+ port, USB 2.0, and USB HID support

Available Accessories

MMA10G-SFP-TR85	SFP+, 10GE, 850nm, MMF, 50/125, LC/LC
MMA10G-SFP2-TR13	SFP+, 10GE, 1310nm, SMF, 9/125, LC/LC, 10Km
MMA10G-SFP-SFP-MM3	3m SFP+ to SFP+ fiber patch cable, 10GE, AOC, 850nm
UXP-CBL-DB9MDTE-4P-15	4 pin to DB9 (male) serial cable, 1.5m length
UXP-CBL-DB9-4P-15	4 pin to DB9 (female) serial cable, 1.5m length

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