

# MMA10G-TRS4K-2-N

## Standalone IPMX-Ready 4K/60 Dual HDMI Gateway



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

- Two HDMI 2.0a inputs and outputs (software defined)
- Resolution up to 4096x2160p @ 60 Hz, 4:4:4 color sampling
- IPMX-ready with support for JPEG-XS, AES67, PTP, and more
- Ultra low latency transport over 10GE links
- 5 USB 2.0 ports available on MMA10G-TRS4K-2U-N
- Customizable EDID tables
- Full integration with MAGNUM-AV management system
- Remote monitoring capabilities using SNMP protocol



HDMI 2.0a 4K (up to 4096x2160p @ 60 Hz, 4:4:4 color sampling) inputs or outputs (software defined) and transports them with ultra low latency over its 10GE links. Customizable EDID tables and scaling on the output paths insure the smoothest handoff between sources and sinks.

### IPMX – Bringing ProAV and Broadcast Closer Together

The MMA10G-TRS4K-2-N is a gateway that conforms to the emerging AV-over-IP open standard IPMX and, as such, complies with the suite of standards detailed in SMPTE ST 2110 and supports features such as JPEG-XS, AES67, and PTP. EvertzAV's line of IPMX-ready gateways provide synchronized, real-time broadcast-quality AV over IP while ensuring the ProAV interoperability requirements of today **and** tomorrow are met.

### Standalone 4K Gateway

The MMA10G-TRS4K-2-N standalone 10GE gateway accepts up to two HDMI inputs or provides up to two HDMI outputs (software defined), in addition to audio and USB. The MMA10G-TRS4K-2-N is a standalone device which is compact and quiet and can be installed in various in-room locations, including behind monitors, under/inside desks and lecterns, and floor boxes. In addition to two HDMI inputs or outputs, the -2U-N version of the product offers USB 2.0, which can be sent at full bandwidth over the 10GE interface.

### Live AV Transport

Using 10Gbps Ethernet the MMA10G-TRS4K-2-N encapsulates video, audio, USB 2.0 (with the -2U-N version), and Ethernet control data at the same time. The MMA10G-TRS4K-2-N supports up to two

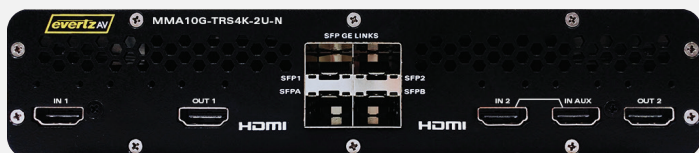
### Fully integrated with Evertz' MAGNUM-AV Controller

The MMA10G-TRS4K-2-N 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.

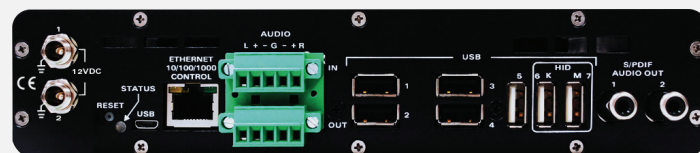
### Remote Monitoring

The MMA10G-TRS4K-2-N 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



MMA10G-TRS4K-2U-N Shown



av.evertz.com

Contents Subject to Change  
Rev. 02

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# MMA10G-TRS4K-2-N

## Standalone IPMX-Ready 4K/60 Dual HDMI Gateway



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### Specifications

	MMA10G-TRS4K-2-N	MMA10G-TRS4K-2U-N
Video Inputs	2 HDMI 2.0a (software defined) 1 HDMI 2.0a Auxiliary to HDMI Input 2	2 HDMI 2.0a (software defined) 1 HDMI 2.0a Auxiliary to HDMI Input 2
Video Outputs	2 HDMI 2.0a (software defined)	2 HDMI 2.0a (software defined)
Supported Resolutions	Up to 4096x2160p @ 60 Hz (4:4:4 color sampling)	Up to 4096x2160p @ 60 Hz (4:4:4 color sampling)
Audio Inputs	1 stereo balanced analog (terminal header)	1 stereo balanced analog (terminal header)
Audio Input Impedance	High impedance	High impedance
Audio Input Level	Line level (+4dBu)	Line level (+4dBu)
Audio Outputs	1 stereo balanced analog (terminal header) 2 S/PDIF	1 stereo balanced analog (terminal header) 2 S/PDIF
Audio Output Impedance	600 Ω	600 Ω
Audio Output Level	Line level (+4dBu)	Line level (+4dBu)
USB	2 HID device ports (type A) 1 HID host port (micro type B)	2 HID device ports (type A) 1 HID and USB 2.0 host port (micro type B) 5 USB 2.0 ports (type A)
Ethernet Transport	10/100/1000 BASE -T RJ45 Ethernet Port (IEEE 802.3)	10/100/1000 BASE -T RJ45 Ethernet Port (IEEE 802.3)
Ethernet Connector	RJ45	RJ45
10GE Outputs	4 SFP+ (see available accessories)	4 SFP+ (see available accessories)
10G Redundancy	Yes	Yes
Output Scaling	Yes	Yes
HDMI Audio	LPCM (up to 8 channels) Passthrough support for Dolby Digital <sup>®</sup> /AC-3, Dolby Digital EX, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS <sup>®</sup> , DTS-ES, DTS-HD High Res, DTS-HD Master Audio, DTS:X	LPCM (up to 8 channels) Passthrough support for Dolby Digital <sup>®</sup> /AC-3, Dolby Digital EX, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS <sup>®</sup> , DTS-ES, DTS-HD High Res, DTS-HD Master Audio, DTS:X
IPMX Support	SMPTE ST 21 10, JPEG-XS, AES67, PTP	SMPTE ST 21 10, JPEG-XS, AES67, PTP
SNMP Support	Yes	Yes
In-Band Control	Yes	Yes
OSD Support	No	Yes
Control System	MAGNUM-AV	MAGNUM-AV
Web-Based Configuration	Yes	Yes
Security Compliance	Compliant with applicable DoD Network Devices Security Technical Implementation Guide (STIG) findings	Compliant with applicable DoD Network Devices Security Technical Implementation Guide (STIG) findings
DC Input Voltage	12VDC via supplied power adapter	12VDC via supplied power adapter
Power Supply	100-240V / 47-63Hz AC input; 12VDC / 5A output	100-240V / 47-63Hz AC input; 12VDC / 5A output
Power Consumption	30W	45W
Operating Temperature	32° to 104° F (0° to 40° C)	32° to 104° F (0° to 40° C)
Relative Humidity	10% to 90% RH (non-condensing)	10% to 90% RH (non-condensing)
Dimensions (H x W x D)	1.81 in x 8.25 in x 6.56 in (45.97mm x 209.55mm x 166.62mm)	1.81 in x 8.25 in x 6.56 in (45.97mm x 209.55mm x 166.62mm)
Weight	32 oz (907.19 g)	32 oz (907.19 g)

### Ordering Information

MMA10G-TRS4K-2-N	Standalone IPMX-ready 4K/60 dual HDMI gateway: dual HDMI input or output, audio, Ethernet, and HID USB
MMA10G-TRS4K-2U-N	Standalone IPMX-ready 4K/60 dual HDMI gateway: dual HDMI input or output, audio, Ethernet, HID USB, and USB 2.0

### 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
3405PS-6HO	Six output primary and redundant auto-ranging power supply, 100V - 240V AC at 50/60Hz

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