

MMA10G-TRS4K-2x2-N

Standalone IPMX-Ready 4K/60 Dual HDMI Transceiver w/ AUX Inputs



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, two HDMI 2.0a AUX inputs, and two HDMI 2.0a outputs
- 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
- Five USB 2.0 ports available on MMA10G-TRS4K-2x2U-N
- Customizable EDID tables
- Full integration with MAGNUM-AV management system
- Remote monitoring capabilities using SNMP protocol



MMA10G-TRS4K-2x2-N can transmit content from any two of the local HDMI ins (including AUX) with ultra low latency over its 10GbE links. It can also simultaneously receive content from the two network transports or local HDMI ins and output any of those two sources to the two HDMI outs.

IPMX - Bringing ProAV and Broadcast Closer Together

The MMA10G-TRS4K-2x2-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.

Fully Integrated with Evertz' MAGNUM-AV Controller

MMA10G-TRS4K-2x2-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.

Standalone 4K Dual HDMI Transceiver

The MMA10G-TRS4K-2x2-N standalone 4K/60 dual HDMI transceiver accepts up to two HDMI inputs (along with two auxiliary HDMI inputs) and provides up to two HDMI outputs, in addition to audio and USB HID. The MMA10G-TRS4K-2x2-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. The MMA10G-TRS4K-2x2U-N version of the product offers USB 2.0 (Host or Device), which can be sent at full bandwidth over the 10GE interface.

Live AV Transport

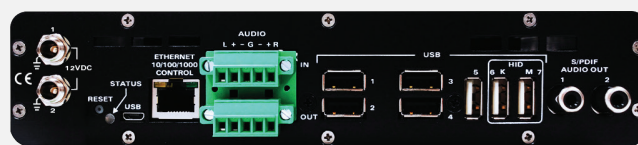
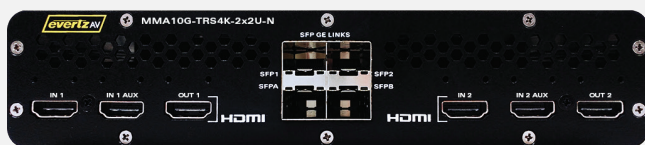
Using 10Gbps Ethernet the MMA10G-TRS4K-2x2-N encapsulates video, audio, USB HID, USB 2.0 Host or Device (with the -2x2U-N version), and Ethernet control data at the same time. As a dual transceiver, the

Remote Monitoring

The MMA10G-TRS4K-2x2-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-2x2U-N Shown



av.evertz.com

Contents Subject to Change
Rev. 02

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Specifications

Specifications	MMA10G-TRS4K-2x2-N	MMA10G-TRS4K-2x2U-N
Video Inputs	2 HDMI 2.0a 1 HDMI 2.0a Auxiliary to HDMI Input 1 1 HDMI 2.0a Auxiliary to HDMI Input 2	2 HDMI 2.0a 1 HDMI 2.0a Auxiliary to HDMI Input 1 1 HDMI 2.0a Auxiliary to HDMI Input 2
Video Outputs	2 HDMI 2.0a	2 HDMI 2.0a
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®/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	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
IPMX Support	SMPTE ST 2110, JPEG-XS, AES67, PTP	SMPTE ST 2110, JPEG-XS, AES67, PTP
SNMP Support	Yes	Yes
In-Band Control	Yes	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	110-220V / 50-60Hz AC input; 12VDC / 11.5A output	110-220V / 50-60Hz AC input; 12VDC / 11.5A output
Power Consumption	TBD	TBD
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)	1.81in x 8.25in x 6.56in (45.97mm x 209.55mm x 166.62mm)	1.81in x 8.25in x 6.56in (45.97mm x 209.55mm x 166.62mm)
Weight	TBD	TBD

Ordering Information

MMA10G-TRS4K-2x2-N	Standalone IPMX-ready 4K/60 dual HDMI transceiver with AUX inputs: dual HDMI inputs, dual HDMI AUX inputs, and dual HDMI outputs; audio, Ethernet, and HID USB
MMA10G-TRS4K-2x2U-N	Standalone IPMX-ready 4K/60 dual HDMI transceiver with AUX inputs and USB 2.0: dual HDMI inputs, dual HDMI AUX inputs, and dual HDMI outputs; audio, Ethernet, HID USB, and USB 2.0 Host and Device

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

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