

MMA10G-TRS4K-12G

Standalone 4K/60 12G-SDI/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 12G-SDI inputs or outputs (software defined, via SFP+), two HDMI 2.0a inputs (w/ an auxiliary HDMI) and two HDMI 2.0a outputs
- Three main modes of operation: dual receive, dual transmit, and single transceive
- Resolution support for up to 4K60 @ 60 Hz
- Ultra low latency transport over 10GE links
- Full integration with MAGNUM-AV management system
- Remote monitoring capabilities using SNMP protocol
- Web-based configuration



used concurrently). The MMA10G-TRS4K-12G 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.

Advanced 12G SDI and HDMI 2.0a Interfaces

For its SDI inputs and outputs, the MMA10G-TRS4K-12G supports resolutions of up to 3840px2160p @ 59.94 Hz while its HDMI 2.0a inputs and outputs support resolutions of up to 4096x2160p @ 60 Hz. The MMA10G-TRS4K-12G employs EvertzAV's latest in scaling technology with high-quality algorithms providing the best picture quality possible as well as customizable EDID tables on the output paths that ensure the smoothest handoff between sources and sinks.

Fully integrated with Evertz' MAGNUM-AV Controller

MMA10G-TRS4K-12G 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-12G 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.

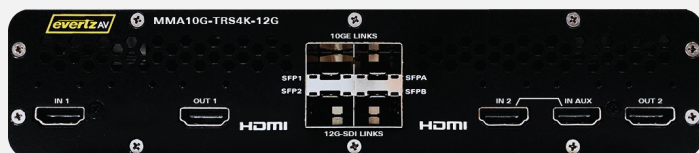
Standalone 4K Gateway

The MMA10G-TRS4K-12G is a versatile 12G-SDI/HDMI gateway that has three main modes of operation:

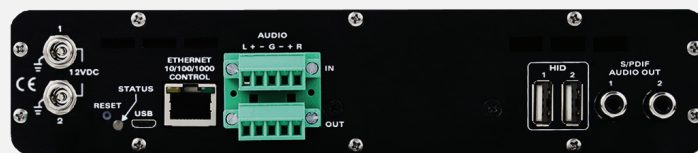
- **Dual transmit mode** allows you to ingest uncompressed broadcast video and audio from the two 12G-SDI inputs and output via the two 10G fiber links at up to 4K60 with visually lossless compression.
- **Dual receive mode** allows you to ingest up to 4K60 compressed video and audio from the 10G fiber links and output via the two SDI outputs uncompressed.
- **Single transceive mode** allows you to use one 12G-SDI port as an input and one 12G-SDI port as an output.

The MMA10G-TRS4K-12G also integrates two HDMI 2.0a inputs (with an additional auxiliary input) and two HDMI 2.0a output ports allowing for ultra low latency HDMI transport (please note, SDI and HDMI cannot be

Front



Rear



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Contents Subject to Change
Rev. 02

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Specifications

Video Inputs	In SDI operational mode: 2x 12G-SDI (via SFP+) In HDMI operational mode: 2x HDMI 2.0a and 1x HDMI 2.0a Auxiliary to HDMI Input 2
Video Outputs	In SDI operational mode: 2x 12G-SDI (via SFP+) In HDMI operational mode: 2x HDMI 2.0a
Supported Resolutions	Broadcast applications: <ul style="list-style-type: none"> 4K60 (3840x2160p@59.94) and 4K50 (3840x2160p@50) 1080p@59.94 1080i@59.94 720p@59.94 and 720p@30 ProAV applications: <ul style="list-style-type: none"> Up to 4K60 (4096x2160p@60)
Audio Inputs	1x stereo balanced analog (terminal header)
Audio Input Impedance	High impedance
Audio Input Level	Line level (+4dBu)
Audio Outputs	1x stereo balanced analog (terminal header) 2x S/PDIF
Audio Output Impedance	600 Ω
Audio Output Level	Line level (+4dBu)
USB	2x HID device ports (type A) 1x HID host port (micro type B)
Control Port (Out-of-Band)	10/100/1000 BASE-T RJ45 Ethernet Port (IEEE 802.3)
Transport Port	2x SFP+ cages (see available accessories)
10G Redundancy	Yes (not available for all modes of operation)
Output Scaling	Yes
HDMI Audio	LPCM (up to 8x 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
OSD Support	No
Control System	MAGNUM-AV
Web-Based Configuration	Yes
Security Compliance	Compliant with applicable DoD Network Devices Security Technical Implementation Guide (STIG) findings
DC Input Voltage	12VDC via supplied power adapter
Power Supply	110-220V / 50-60Hz AC input; 12VDC / 11.5A output
Power Consumption	60W
Operating Temperature	32° to 104° F (0° to 40° C)
Relative Humidity	10% to 90% RH (non-condensing)
Dimensions (H x W x D)	1.81in x 8.25in x 6.56in (45.97mm x 209.55mm x 166.62mm)
Weight	42.26oz (1198 g)

Ordering Information

MMA10G-TRS4K-12G	Standalone 4K/60 12G-SDI/HDMI gateway with audio, Ethernet, and HID
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Available Accessories

SFP3TR-HDBNC-12G	SFP+, 12G-SDI transceiver with HD-BNC connectors
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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