



# MMA10G

NETWORK BASED AV DISTRIBUTION

CONNECT. COLLABORATE. SHARE RESOURCES. MANAGE.



A division of Evertz

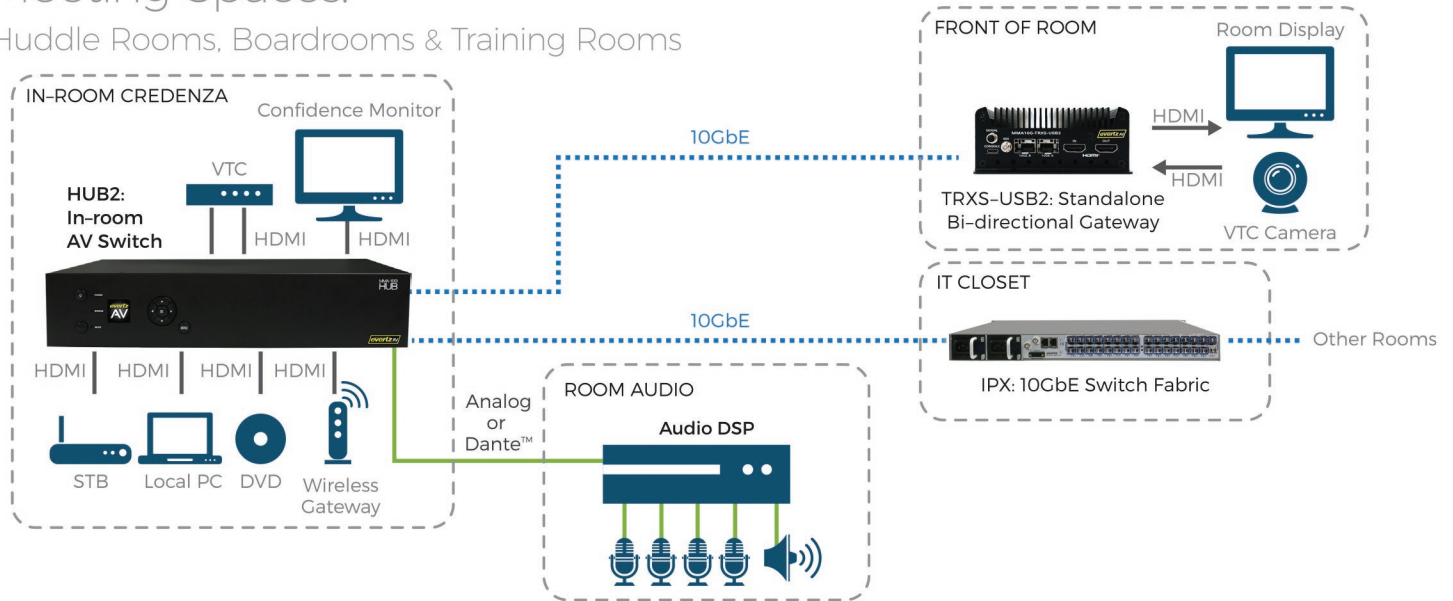
# It All Starts with a Single Room

The MMA-10G solution provides scalability and growth with 10GbE transport capability.

Evertz' MMA-10G is extremely flexible, therefore there is no limit to the type of space the technology can be applied. With support for a variety of video and audio formats and near limitless scalability, you can start small and grow with MMA-10G. The MMA-10G solution can be used in a variety of spaces, including:

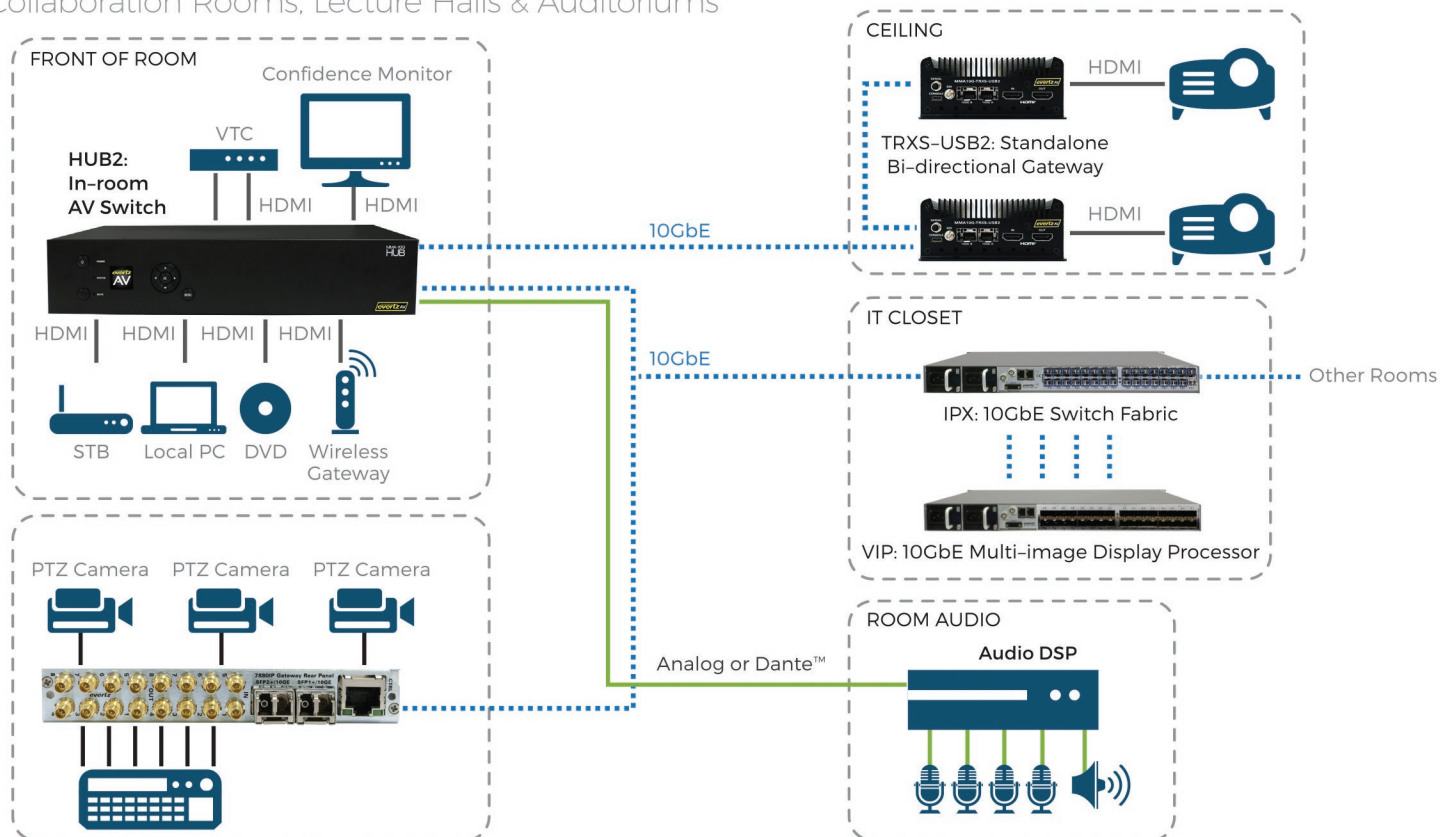
## Meeting Spaces:

Huddle Rooms, Boardrooms & Training Rooms



## Presentation Spaces:

Collaboration Rooms, Lecture Halls & Auditoriums

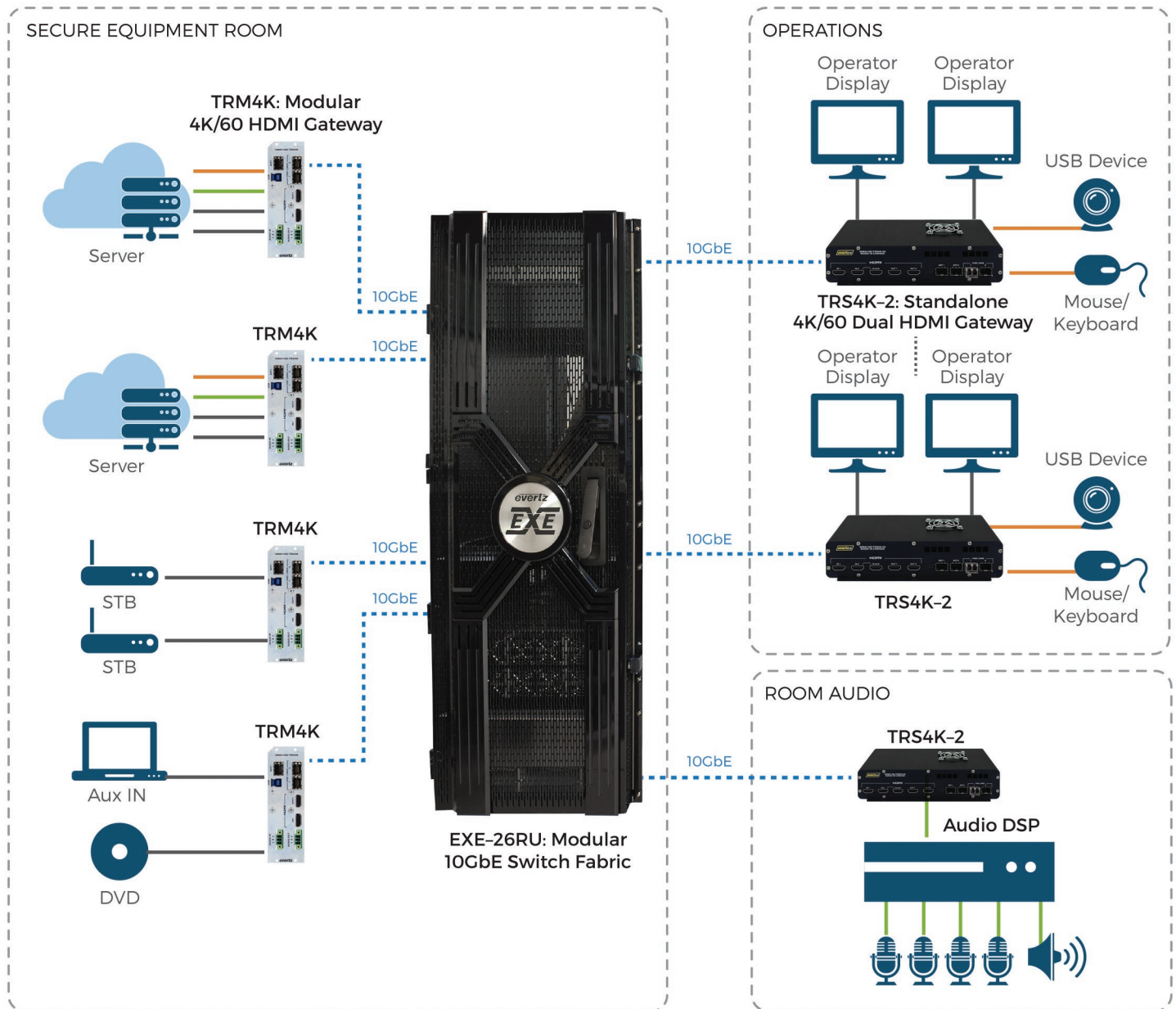


# High Performance Video, Audio & USB Routing

Evertz' MMA-10G solution can tackle the largest of video, audio and USB routing projects.

Size is no longer an issue — the MMA-10G can scale to match project requirements of any size, no matter how large or complex. Transport your video, audio and USB data securely and at the highest quality using the largest switch fabric in the industry.

## Command and Control:





# Unmatched Connectivity

Interconnect facilities, buildings and geographic regions with ease

## End-to-End Network Based Distribution

EvertzAV's MMA-10G is an end-to-end network based distribution and routing technology tailored for the ProAV market. EvertzAV has carefully designed each aspect of the MMA-10G ecosystem, blending the predictability of the baseband world with the flexibility and scalability of the networking world.

MMA-10G uses 10Gb Ethernet at its core for transport of the packetized video, audio and control data. The platform allows multiple videos, audios and control to all be carried over a single 10GbE port. To guarantee trouble-free operation, the MMA-10G solution features purpose-built 10GbE switch fabrics, which come in a wide range of port counts to handle any size project from small to large. Through firsthand industry feedback, EvertzAV has developed a series of gateway products, in-room AV switch platforms and visualization monitoring tools to facilitate a variety of project requirements.

Many organizations have already taken advantage of the flexibility MMA-10G offers. Learn how MMA-10G can benefit your organization and open up a world of possibilities never thought possible before.

Key advantages of a MMA-10G-based facility:

### Agile

Start with a single room and add connectivity on demand

### Flexible

Expand and grow the size of your deployment without limitation

### Secure

Key elements of MMA-10G are NIAP listed and Common Criteria certified

### Future-proof

Fully format- and resolution-agnostic infrastructure equates to a future-proof facility

# Getting Connected Has Never Been Easier

Expand your network beyond the boardroom — connect and share as if you are in the same room

Key advantages of a connected facility:

- Ability to support meeting/lecture room overflow
- Higher performance inter-facility intercom

- Pooling/sharing of limited use resources
- Centralized enterprise monitoring/management model

**Auditorium**  
(Building 1)



**Corporate Comms Studio**  
(Building 1)



**Lecture Hall**  
(Building 1)



## EvertzAV 10GbE AV Network



**AV Master Control**  
(Building 2)



**Pooled Resources**  
(Building 3)



**Conference Room 33**  
(Building 3)

# MMA-10G System Diagram



## Modular Gateways

### MMA10G-TRM4K-4S

- Modular 4K/60 SDI/HDMI Bridge
- Four SDI inputs/outputs, one HDMI 2.0a input, one HDMI 2.0a output
- Receive and combine four SDI signals (1080p/60)
- Send and output to HDMI or 10G fiber (4K/60)
- Receive and split HDMI or 10G fiber signals (4K/60) and output to 4 SDI (1080p/60 each). Other modes of operation available.



### MMA10G-TRM4K-12G

- Modular 4K/60 12C-SDI/HDMI Gateway
- Two 12C-SDI inputs or outputs, two HDMI 2.0a inputs and two HDMI 2.0a outputs
- Three main modes of operation: dual receive, dual transmit, and single transceive
- Supports S21 method of transport outlined in SMPTE 425-5
- Resolution up to 4096x2160/60 (4:4:4 color sampling)



### MMA10G-TRM4K-2U

- Modular Dual KVM Transmit Gateway w/ USB 2.0
- Modular 4K/60 transceiver, two HDMI 2.0a inputs and two HDMI 2.0a outputs
- Support for USB 2.0
- Support for resolutions up to 4096x2160/60 (4:4:4 color sampling)
- 10GbE interface for transmitting/receiving audio, video, and USB



## Switch Fabrics

### MMA10G-EXE

- Scalable 10/25/100GbE Switch Fabric
- EXE36: Modular switch expandable up to 2048 10GbE/25GbE ports in 36RU
- EXE26: Modular switch expandable up to 1024 10GbE/25GbE ports in 26RU
- EXE16: Modular switch expandable up to 512 10GbE/25GbE ports in 16RU
- High availability architecture



### MMA10G-IPX

- 16/32/64/128 Port 1/10GbE Switch Fabric
- IPX16: 16 SFP ports supporting 1 or 10GbE, 3200bps switch plane capacity in 1RU
- IPX32: 32 SFP ports supporting 1 or 10GbE, 6400bps switch plane capacity in 1RU
- IPX64: 64 SFP ports supporting 1 or 10GbE, 127bps switch plane capacity in 3RU
- IPX128: 128 SFP ports supporting 1 or 10GbE, 247bps switch plane capacity in 6RU



## Standalone Gateways

### MMA10G-TRXS-USB2

- Standalone Transceiver Gateway w/ USB 2.0
- 4K capable (3840x2160/20)
- Support for SDI, analog audio, USB 2.0, USB HID, and serial
- Dual receive mode allowing for pip functionality
- 10GbE interface for remote connectivity and in-band control



### MMA10G-HUB2

- In-Room AV Switch
- AV switch, up to 12 video inputs (HDMI, HDSDI, SDI) and four video outputs (HDMI, HDSDI)
- Support for Dante network audio interface
- 4K capable (3840x2160/30)
- 10GbE interface for transmitting/receiving audio and video



### MMA10G-TR54K-2U-HDMI

- Standalone Dual KVM Receive Gateway w/ USB 2.0
- Standalone 4K/60 transceiver, two HDMI 2.0a inputs and two HDMI 2.0a outputs
- Support for USB 2.0
- Support for resolutions up to 4096x2160/60 (4:4:4 color sampling)
- 10GbE interface for transmitting/receiving audio, video, and USB



## Monitoring Software

### VLPRO-AVOC-NMS AV Operations Center

- Provides graphical representation of enterprise AV deployments
- Intuitive control interface to aid support personnel
- Early warning alarms and notification



## Shared Resources

### MMA10G-RS4K-4U & MMA10G-VIP

- MMA10G-RS4K-4U: Arrange up to four videos (from HDMI inputs or network) and output on a 4K60 raster view up to 32 sources across 8 displays
- MMA10G-VIP: Modular multi-window processor.



## Additional Gateways

### MMA10G-HUB-USB & MMA10G-HUBA-32x32

- MMA10G-HUBA-USB: 10GbE standalone USB hub w/ up to six USB modules w/ four USB 2.0 ports each
- MMA10G-HUBA-32x32: network-enabled 32x32 analog audio switch with Dante™



## Streaming

### EV-ENCS-4K-1/EV-DECS-4K-1 4K H.264 Media Encoder/Decoder

- High video/audio quality using low bandwidth
- Via H.264 and AAC codec support
- Resolution support up to 3840x2160@30Hz
- Supports DHCP static IP, and auto IP
- 12V DC or Power over Ethernet (PoE)



## Accessories

### HDBaset & HDMI Accessories

- EV-PTZ-4K-3: 4K HDBaset PTZ camera
- EV-RS4K-1: 4K HDBaset receiver
- EV-RS4K-2/EV-RS4K-2: HDMI extenders
- EV-TW4K-1: HDBaset 2.0 wall plate transmitter
- HDMI 2.0 4K/UHD premium certified cables



## Control System

### MAGNUM-RC Standalone Room Controller

- Simple room control appliance
- Web-based control for BYOD
- Direct touch panel interface



\* For product ordering information please contact your EvertzAV sales representative

# EvertzAV MMA-10G Gateways

	MMA10G-TRM4K	MMA10G-TRS4K	MMA10G-TRXS-USB2	MMA10G-HUB2	MMA10G-IPCM-6	MMA10G-TRM4K-12C
Video Inputs	2x HDMI	2x HDMI	1x HDMI, 1x SDI (software defined)	8x HDMI or 4x HDBT, 4x HDMI	6x SDI	2x HDMI, 2x SDI (software defined)
Video Outputs	2x HDMI	2x HDMI	1x HDMI, 1x SDI (software defined)	4x HDMI or 2x HDBT, 2x HDMI	6x SDI	2x HDMI, 2x SDI (software defined)
Supported Resolution	Up to 4096x2160@60Hz (4:4:4 sampling)	Up to 4096x2160@60Hz (4:4:4 sampling)	Up to 3840x2160@30Hz	Up to 3840x2160@30Hz * * Inputs 1, 3, 5, 7 * All Outputs	525i, 626i, 720p, 1080i, 1920x1080p, 2048x1080p	525i, 626i, 720p, 1080i, 1920x1080p, 2048x1080p, 3840x2160p, 4096x2160p
HDBT™ Supported	No	No	No	Yes	No	No
Fast Switching	Yes	Yes	Yes	Yes	Yes	Yes
Output Scaling	Yes	Yes	Yes	Yes	Yes	Yes
HDCP Supported	Yes	Yes	Yes	Yes	No	Yes
EDID Supported	Yes	Yes	Yes	Yes	No	Yes
USB	HID standard 2.0 optional (-2RU)	HID standard 2.0 optional (-2RU)	HID USB 2.0	No	No	No
Audio In	2x HDMI, 2x analog	2x HDMI, 2x analog	1x HDMI, 1x SDI (software defined), 1x analog	8x HDMI, 4x analog	6x SDI	2x HDMI, 2x SDI (software defined), 1x analog
Audio Out	No	2x HDMI, 1x analog	1x HDMI, 1x SDI (software defined), 1x analog	4x HDMI, 3x analog	6x SDI	2x HDMI, 2x SDI (software defined), 1x analog
Dante™ Supported	No	No	No	Yes * * 32x32	No	No
Enclosure	Modular (1 or 3RU) * * 7800FR	Standalone	Standalone	Standalone (2RU)	Modular (1 or 3RU) * * 7800FR	Modular (1 or 3RU) * * 7800FR
10GbE Redundancy	Yes	Yes	No	Yes	No	Yes
In-band 10GbE Network Control	Yes	Yes	Yes	Yes	Yes	Yes
In-band Control Pass Through	No	Yes	Yes	Yes	No	No
Web Page Configuration	Yes	Yes	Yes	Yes	Yes	Yes

Note: all video, audio and USB signals are transported individually and can be routed separately.  
For product ordering information, please contact the appropriate sales office listed below.



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