

UXP-TRM4K-2/UXP-TRM4K-2U Modular IPMX Certified AV Gateway



NUCLEUS
AV OVER IP - SIMPLIFIED

EvertzAV's NUCLEUS is an AV over IP platform developed exclusively for enterprises looking for the highest in quality and reliability while maintaining a simplified user experience.



Key Features

- Two HDMI 2.0a inputs and outputs (software defined)
- Resolution up to 4096x2160p @ 60 Hz, 4:4:4 color sampling*
- Modular device installed in an EvertzAV rack mount frame
- IPMX certified with support for JPEG-XS TDC, AES67, PTP, and more
- Ultra low latency transport over 1GbE links
- Third-party control support
- USB 2.0 support available on UXP-TRM4K-2U



Fully Integrated with the NUCLEUS Platform

The UXP-TRM4K-2 is a managed element of the NUCLEUS platform which is controlled by the NUCLEUS Session Manager — a full featured centralized management server used for the configuration, control, and orchestration of the UXP AV gateways. Any combination of UXP AV gateways can be interconnected using a COTS (Commercial Off The Shelf) network switch and then configured and managed by the NUCLEUS Session Manager.

IPMX – Bringing ProAV and Broadcast Closer Together

The UXP-TRM4K-2 is also 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 TDC, AES67, and PTP. EvertzAV's line of IPMX certified gateways provide synchronized, real-time broadcast-quality AV over IP while ensuring the ProAV interoperability requirements of today **and** tomorrow are met.



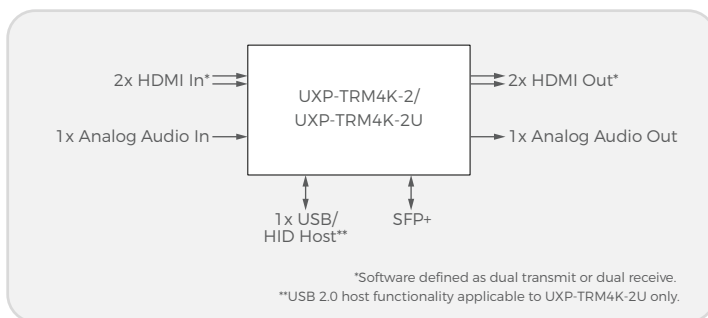
Modular AV Gateway

The UXP-TRM4K-2 modular AV gateway accepts up to two HDMI inputs or provides up to two HDMI outputs (software defined and dependent on network bandwidth), in addition to audio and USB. The UXP-TRM4K-2 is a modular device and is installed in an Evertz rack mount modular frame. This approach offers flexibility and density as well as a secure and reliable solution for mounting next to servers. In addition to two HDMI inputs or outputs, the -2U version of the product offers USB 2.0, which can be sent at full bandwidth over your 1GbE network.

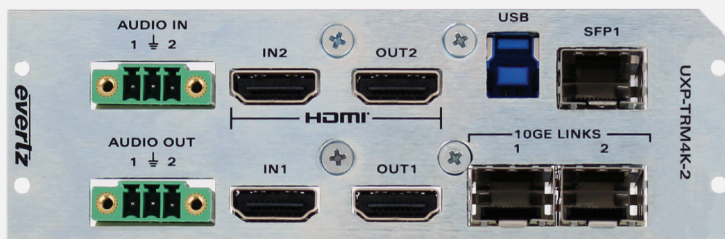
Live AV Over IP Transport

Using 1Gbps Ethernet the UXP-TRM4K-2 encapsulates video, audio, USB 2.0 (with the -2U version), and Ethernet control data at the same time. The UXP-TRM4K-2 supports up to two HDMI 2.0a inputs or outputs (software defined and dependent on network bandwidth) and transports them with ultra low latency over its 1GbE links.

Inputs and Outputs



UXP-TRM4K-2



UXP-TRM4K-2 Shown



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Contents Subject to Change
Rev. 13

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UXP-TRM4K-2/UXP-TRM4K-2U

Modular IPMX Certified AV Gateway



NUCLEUS

AV OVER IP - SIMPLIFIED

Specifications

	UXP-TRM4K-2	UXP-TRM4K-2U
Video Inputs	2 HDMI 2.0a (software defined and dependent on network bandwidth)	2 HDMI 2.0a (software defined and dependent on network bandwidth)
Video Outputs	2 HDMI 2.0a (software defined and dependent on network bandwidth)	2 HDMI 2.0a (software defined and dependent on network bandwidth)
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 unbalanced analog (terminal header)	1 stereo unbalanced analog (terminal header)
Audio Input Impedance	High impedance	High impedance
Audio Input Level	Line level (+4dBu)	Line level (+4dBu)
Audio Outputs	1 stereo unbalanced analog (terminal header)	1 stereo unbalanced analog (terminal header)
Audio Output Impedance	600 Ω	600 Ω
Audio Output Level	Line level (+4dBu)	Line level (+4dBu)
USB/HID	1 HID host port (USB type B)	1 host port for HID and other USB devices (USB 2.0 type B)
Transport Port	2x SFP+ cages. Either can be used for NUCLEUS transport at rates of 1GbE, 2.5GbE or 10GbE (see available accessories)	2x SFP+ cages. Either can be used for NUCLEUS transport at rates of 1GbE, 2.5GbE or 10GbE (see available accessories)
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
SNMP Support	Yes	Yes
In-Band Control	Yes	Yes
Control System	NUCLEUS Session Manager	NUCLEUS Session Manager
Third-Party Control Support	Yes	Yes
Web-Based Configuration	Yes (via NUCLEUS Session Manager)	Yes (via NUCLEUS Session Manager)
Security Compliance	Compliant with applicable DoD Network Devices Security Technical Implementation Guide (STIG)	Compliant with applicable DoD Network Devices Security Technical Implementation Guide (STIG)
Modular Design	7800/7801 device, installed in 7800/7801FR	7800/7801 device, installed in 7800/7801FR
Slots	2	2
DC Input Voltage	12VDC provided by frame	12VDC provided by frame
Power Consumption	40W	40W
Ambient 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)

Ordering Information

UXP-TRM4K-2	Modular IPMX certified AV gateway: dual HDMI input or output, audio, and HID USB
UXP-TRM4K-2U	Modular IPMX certified AV gateway: dual HDMI input or output, audio, and HID USB/USB 2.0

Available Accessories

7801FR	Modular frame, 1RU, 4 slots
7801FC	Modular frame controller for 1RU
7800FR-QT	Modular quiet frame, 3RU, 15 slots, dual PS
7800FC	Modular frame controller for 3RU
UXP-SFP2-1G-T	SFP+, 1000 BASE-T RJ45, 100m
UXP-SFP-2G5-T	SFP+, 2.5G BASE-T RJ45, 100m
UXP-SFP-10G-T	SFP+, 10G BASE-T RJ45, 30m

*4096x2160p @ 60 Hz (4:4:4 color sampling) is the highest resolution supported by the UXP-TRM4K-2/-2U AV gateways and can be achieved only when deployed in a 10GbE network. EvertzAV, the EvertzAV logo, and VistaLINK are either trademarks or registered trademarks of Evertz Microsystems Ltd. HDMI and the HDMI logo are either trademarks or registered trademarks of HDMI Licensing LLC. The USB logo is a trademark of the Universal Serial Bus Implementers Forum, Inc. Other trademarks, registered trademarks, and trade names mentioned in this document may refer to either the entities claiming the marks and names or their products and are hereby acknowledged. © 2026 Evertz Microsystems Ltd.



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