UXP-TRM4K-2/UXP-TRM4K-2U
Modular 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.

4K | HDMI | HI-SPEED USB CERTIFIED

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
- Auto-discovery and simplified provisioning features
- Ultra low latency transport over 1GbE links
- Third-party control support
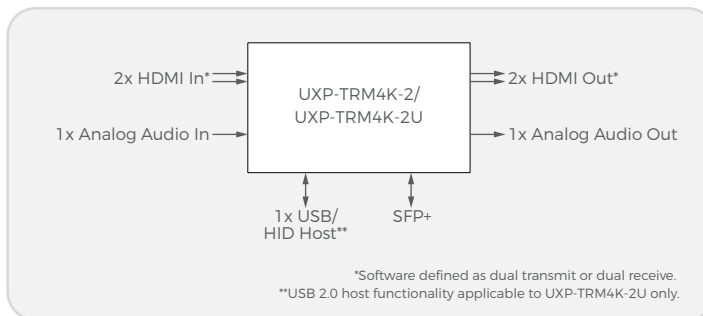- USB 2.0 support available on UXP-TRM4K-2U

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.
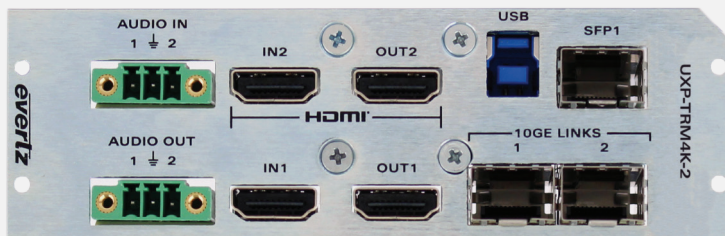
Live AV Over IP Transport

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.

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.

East Setup, No Programming Required

The NUCLEUS platform operates on a simplified configuration framework allowing administrators the ability to set up a fully functional AV distribution network in no time at all without the hassles associated with most AV distribution platforms available on the market today. The process has been streamlined so that a UXP AV gateway can be taken out of the box and be put to use in less than five minutes. Whether big or small, deployments of all sizes are handled the same way, using the same consistent process.

Inputs and Outputs

2x HDMI In* → UXP-TRM4K-2/ UXP-TRM4K-2U → 2x HDMI Out*

1x Analog Audio In → → 1x Analog Audio Out

1x USB/ HID Host** — SFP+

*Software defined as dual transmit or dual receive.
**USB 2.0 host functionality applicable to UXP-TRM4K-2U only.

UXP-TRM4K-2

AUDIO IN 1 2 | IN2 | OUT2 | USB | SFP1
HDMI
AUDIO OUT 1 2 | IN1 | OUT1 | 10GE LINKS 1 2
UXP-TRM4K-2

UXP-TRM4K-2 Shown

Specifications

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 Ports	2 SFP/SFP+ (see available accessories)	2 SFP/SFP+ (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 AV gateway: dual HDMI input or output, audio, and HID USB
UXP-TRM4K-2U	Modular 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

evertzAV   av.evertz.com

Contents Subject to Change
Rev. 12

North America/International AV Sales
avsales@evertz.com
+1 905-335-3700