UXP-TRS4KQ-2/UXP-TRS4KQ-2U
Fanless Standalone 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*
- Fanless device passively cooled by convection air flow
- Auto-discovery and simplified provisioning features
- Ultra low latency transport over 1GbE links
- Third-party control support
- 5 USB 2.0 ports available on UXP-TRS4KQ-2U

Standalone AV Gateway

The UXP-TRS4KQ-2 standalone gateway accepts up to two HDMI inputs or provides up to two HDMI outputs (software defined), in addition to audio and USB. The UXP-TRS4KQ-2 is a compact standalone device that dissipates heat by convection air flow with the use of a heatsink, thus the UXP-TRS4KQ-2 is an ideal gateway for applications where silence is key. 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-TRS4KQ-2 encapsulates video, audio, USB 2.0 (with the -2U version), and Ethernet control data at the same time. The UXP-TRS4KQ-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.
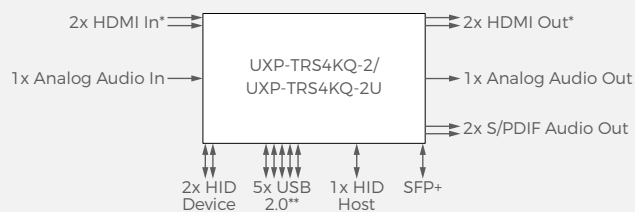
Fully Integrated with the NUCLEUS Platform

The UXP-TRS4KQ-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.

Easy 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

	UXP-TRS4KQ-2/UXP-TRS4KQ-2U	
2x HDMI In* →		→ 2x HDMI Out*
1x Analog Audio In →		→ 1x Analog Audio Out
		→ 2x S/PDIF Audio Out
	2x HID Device · 5x USB 2.0** · 1x HID Host · SFP+	

*Software defined as dual transmit or dual receive.
**Applicable to UXP-TRS4KQ-2U only.

Front

Rear

UXP-TRS4KQ-2U Shown

av.evertz.com

Contents Subject to Change
Rev. 09

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Specifications

	UXP-TRS4KQ-2	UXP-TRS4KQ-2U
Video Inputs	2 HDMI 2.0a (software defined and dependent on network bandwidth) 1 HDMI 2.0a Auxiliary to HDMI Input 2	2 HDMI 2.0a (software defined and dependent on network bandwidth) 1 HDMI 2.0a Auxiliary to HDMI Input 2
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 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/HID	2 HID device ports (type A) 1 HID host port (micro type B)	2 HID device ports (type A) 1 HID 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
Transport Ports	2 SFP+ (see available accessories)	2 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)
DC Input Voltage	12VDC via supplied power adapter	12VDC via supplied power adapter
Power Supply	100-240V / 47-63Hz AC input; 12VDC / 5A output	100-240V / 47-63Hz AC input; 12VDC / 5A output
Power Consumption	30W	45W
Ambient Operating Temperature	32˚ to 104˚ F (0˚ to 40˚ C)	32˚ to 104˚ F (0˚ to 40˚ C)
Operational Case Temperature Measured at an ambient temperature of 73.4˚F (23˚C)	Heat sink = 93.2˚F (34˚C) Highest localized case temperature (measured on rear mounting surface of device) = 127.4˚F (53˚C)	Heat sink = 93.2˚F (34˚C) Highest localized case temperature (measured on rear mounting surface of device) = 127.4˚F (53˚C)
Relative Humidity	10% to 90% RH (non-condensing)	10% to 90% RH (non-condensing)
Dimensions (H x W x D)	2.18in x 9.35in x 6.56in (55.37mm x 237.49mm x166.62mm)	2.18in x 9.35in x 6.56in (55.37mm x 237.49mm x166.62mm)
Weight	44 oz (1247.38 g)	44 oz (1247.38 g)

Ordering Information

UXP-TRS4KQ-2	Fanless standalone AV gateway: dual HDMI input or output, audio, Ethernet, and HID USB
UXP-TRS4KQ-2U	Fanless standalone AV gateway: dual HDMI input or output, audio, Ethernet, HID USB, and USB 2.0

Available Accessories

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
3405PS-6HO	Six output primary and redundant auto-ranging power supply, 100V – 240V AC at 50/60Hz