UXP-TRXS4K-USB2
Standalone 4K60 AV Gateway w/ USB 2.0

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

- One HDMI input and one HDMI output (HDMI type A)
- Analog audio input and output, two USB 2.0 ports, two USB HID ports, and one serial port
- Resolution up to 4096x2160p @ 60 Hz
- Standalone device with low profile form factor
- 1/2.5/10GE Ethernet transport via SFP+
- Ultra low latency transport over transport links
- Third-party control support

Standalone AV Gateway

The UXP-TRXS4K-USB2 standalone AV gateway is a device that can either be used as a receiver, a transmitter, or both at the same time. Leveraging the bi-directional capabilities of the transport link, the UXP-TRXS4K-USB2 can be used to both send and receive HDMI video, audio, serial, USB HID, and USB 2.0 data. Reduce decision making at design time by simply adding up the number of devices that need to either send or receive as the UXP-TRXS4K-USB2 can be used for any connection point.

Live AV Over IP Transport

Using up to 10G Ethernet, the UXP-TRXS4K-USB2 both encapsulates and de-encapsulates video, audio, USB HID, and USB 2.0 data simultaneously. The UXP-TRXS4K-USB2 has two HDMI ports (one receive and one transmit, supporting resolutions of up to 4096x2160p @ 60 Hz) and transports them with ultra low latency over its transport links. The UXP-TRXS4K-USB2 supports both embedded audio on HDMI as well as a discrete audio input. Additionally, a USB connection is provided to supply HID device connectivity over your network and

an RS-232/RS-422 port is available for serial communication, transport, and control.
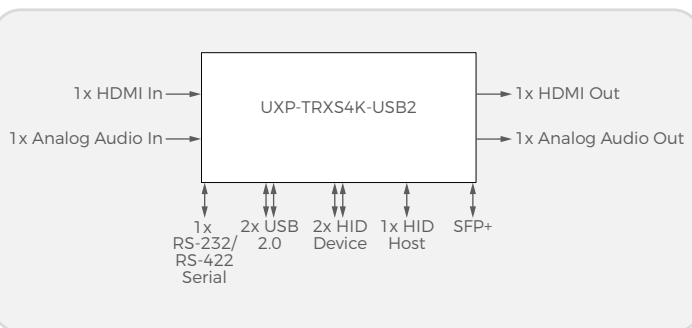
Fully Integrated with the NUCLEUS Platform

The UXP-TRXS4K-USB2 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.
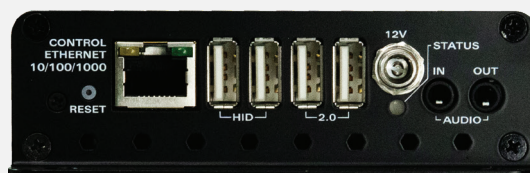
Inputs and Outputs

Front

Rear

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Specifications

Video Inputs	1 HDMI (type A)
Video Outputs	1 HDMI (type A)
Supported Resolutions	Up to 4096x2160p @ 60 Hz
Audio Inputs	1 stereo unbalanced analog (3.5mm)
Audio Input Impedance	25K Ω
Audio Input Level	Line level
Audio Outputs	1 stereo unbalanced analog (3.5mm)
Audio Output Impedance	4 to 8 Ω
Audio Output Level	Line level
USB/HID	2 HID device ports (type A) 1 HID host port (micro type B) 2 USB 2.0 ports (type A) (can be software defined as host or client)
Control Port (Out-of-Band)	10/100/1000 BASE-T RJ45 Ethernet Port (IEEE 802.3)
Transport Port	1 SFP+ cage that can be used for NUCLEUS transport at rates of 1GE, 2.5GE or 10GE (see available accessories)
RS-232/RS-422	M5 DIN connector (optional M5 to DB9 converter cable available – see Available Accessories)
Output Scaling	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
In-Band Control	Yes
Control System	NUCLEUS Session Manager
Web-Based Configuration	Yes (via NUCLEUS Session Manager)
Security Compliance	Tested against US Department of Defense (DoD) Security Technical Implementation Guides (STIGs)
DC Input Voltage	12VDC via supplied power adapter
Power Supply	100-240V / 47-63Hz AC input; 12VDC / 5A output
Power Consumption	TBD
Ambient Operating Temperature	32˚ to 104˚ F (0˚ to 40˚ C)
Relative Humidity	10% to 90% RH (non-condensing)
Dimensions (H x W x D)	1.30in x 4.13in x 7.48in (33mm x 105mm x 190mm)
Weight	TBD

Ordering Information

UXP-TRXS4K-USB2	Standalone 4K60 transceiver up to 10GE: single HDMI input, single HDMI output, analog audio, RS-232/422 serial port, SFP+ port, USB 2.0, and USB HID support

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
UXP-CBL-DB9MDTE-4P-15	4 pin to DB9 (male) serial cable, 1.5m length
UXP-CBL-DB9-4P-15	4 pin to DB9 (female) serial cable, 1.5m length
UXP-PS-12V5A	Power supply (100-240V / 47-63Hz AC input; 12VDC / 5A output)

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