

UXP-TRS4K-4x2/UXP-TRS4K-4x2U

Standalone AV Dual HDMI Transceiver



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

- Four HDMI 2.0a inputs and two HDMI 2.0a outputs
- Resolution up to 4096x2160p @ 60 Hz, 4:4:4 color sampling*
- 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-TRS4K-4x2U



Standalone AV Dual HDMI Transceiver

The UXP-TRS4K-4x2 standalone AV dual HDMI transceiver accepts up to four HDMI inputs and provides up to two HDMI outputs, in addition to audio and USB. The UXP-TRS4K-4x2 is a standalone device which is compact and quiet and can be installed in various in-room locations, including behind monitors, under/inside desks and lecterns, and floor boxes.

Live AV Over IP Transport and Switching Capabilities

Using 1Gbps Ethernet the UXP-TRS4K-4x2 encapsulates video, audio, USB HID, USB 2.0 Host or Client (with the UXP-TRS4K-4x2U version), and Ethernet control data at the same time. As a dual transceiver, the UXP-TRS4K-4x2 can transmit content from any two of the four local HDMI ins with ultra low latency over its 1GbE links. It can also simultaneously receive content from the two network transports or four local HDMI ins and output any of those two sources to the two HDMI outs. The abundance of AV sources that it can handle (i.e. from the two network transports and four local HDMI inputs) along with its two HDMI outputs also makes the UXP-TRS4K-4x2 an extremely

versatile and compact in-room AV switcher. With so much functionality packed into one gateway, the applications are limitless.

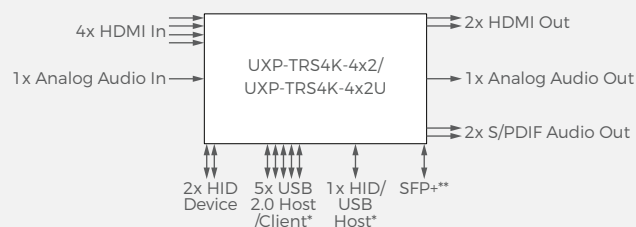
Fully Integrated with the NUCLEUS Platform

The UXP-TRS4K-4x2 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

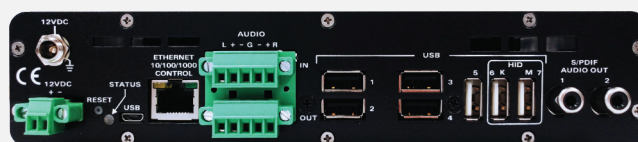


*5x USB 2.0 Host/Client and 1x USB Host applicable to UXP-TRS4K-4x2U only.
**Allow for up to 2 Tx and 2 Rx depending on the resolution and SFP rate (i.e. 1GbE or 10GbE).

Front



Rear



UXP-TRS4K-4x2U Shown



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Contents Subject to Change
Rev. 04

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Specifications

	UXP-TRS4K-4x2	UXP-TRS4K-4x2U
Video Inputs	4 HDMI 2.0a	4 HDMI 2.0a
Video Outputs	2 HDMI 2.0a	2 HDMI 2.0a
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/USB host port (micro type B) 5 USB 2.0 ports (type A) (can be software defined as host or client)
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/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)
DC Input Voltage	12VDC via supplied power adapter	12VDC via supplied power adapter
Power Supply	110-220V / 50-60Hz AC input; 12VDC / 11.5A output	110-220V / 50-60Hz AC input; 12VDC / 11.5A output
Power Consumption	80W	80W
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)
Dimensions (H x W x D)	1.81 in x 8.25 in x 6.56 in (45.97 mm x 209.55 mm x 166.62 mm)	1.81 in x 8.25 in x 6.56 in (45.97 mm x 209.55 mm x 166.62 mm)
Weight	42.26 oz (1198 g)	42.61 oz (1208 g)

Ordering Information

UXP-TRS4K-4x2	Standalone AV dual HDMI transceiver: quad HDMI input and dual HDMI output, audio, Ethernet, and HID USB
UXP-TRS4K-4x2U	Standalone AV dual HDMI transceiver: quad HDMI input and dual HDMI output, audio, Ethernet, HID USB, and USB 2.0 (host or client)

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
UXP-RACK-PAF-1	Panel assembly for rack mounting one UXP-TRS4K-4x2/-4x2U gateway in a 19in rack
UXP-RACK-PAF-2	Panel assembly for rack mounting two UXP-TRS4K-4x2/-4x2U gateways in a 19in rack

*4096x2160p @ 60 Hz (4:4:4 color sampling) is the highest resolution supported by the UXP-TRS4K-4x2/-4x2U AV gateways and can be achieved only when deployed in a 10GbE network. EvertzAV and the EvertzAV logo 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. © 2023 Evertz Microsystems Ltd.



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