UXP-RS4K-4/UXP-RS4K-4U
Standalone 10GE AV Quad Image Processor/Receiver

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

- Supports four HDMI 2.0a inputs or four network transport inputs and one configurable HDMI 2.0a quad output
- Resolution up to 4096x2160p @ 60 Hz, 4:4:4 color sampling
- Select from up to four input videos and independently arrange and output on two separate 4K60 videos (with optional alpha blending)
- 16 predefined layout presets as well as manual layout mode
- Ultra low latency transport over 10GE links
- Third-party control support
- 5 USB 2.0 ports available on UXP-RS4K-4U

Standalone 10GE AV Quad Image Processor/Receiver

The UXP-RS4K-4 standalone 10GE AV quad image processor/receiver encompasses four HDMI inputs and two HDMI outputs, in addition to its audio, USB HID, and (with the UXP-RS4K-4U version) USB 2.0 ports and a USB Host port. The UXP-RS4K-4 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.

Unique Quad Display Functionality

The UXP-RS4K-4's quad display functionality allows you to select up to four video sources, individually scale and arrange the layout of the video sources, and then output to a 4K60 raster (with optional alpha blending on the video source windows if desired). This quad display functionality is applicable to each HDMI output independently. Video sources can be chosen using either four network transport sources or via the four local HDMI 2.0a 4K inputs (up to 4096x2160p @ 60 Hz, 4:4:4 color sampling). 16 predefined preset display layouts

are available to choose from or you can customize your own layout using manual mode.
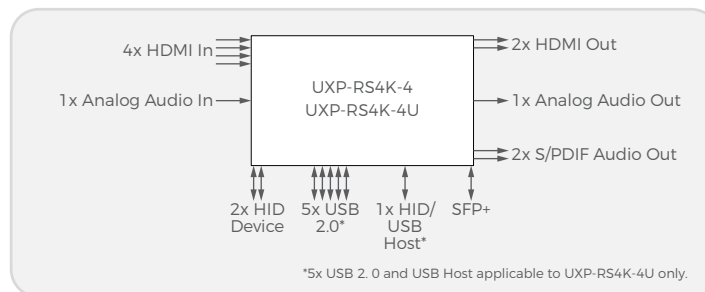
Fully Integrated with the NUCLEUS Platform

The UXP-RS4K-4 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.
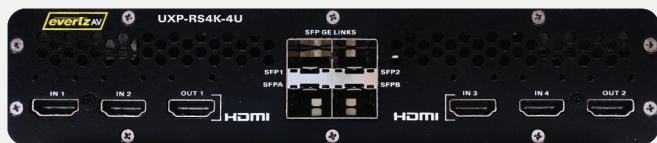
No Fuss Setup, No Programming Required

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.
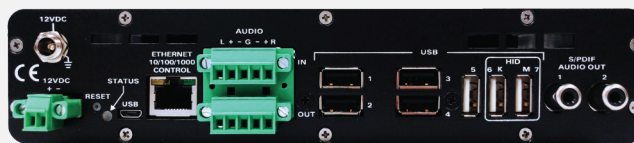
Inputs and Outputs

4x HDMI In → UXP-RS4K-4 / UXP-RS4K-4U → 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/USB Host* | SFP+

*5x USB 2.0 and USB Host applicable to UXP-RS4K-4U only.

Front

Rear

UXP-RS4K-4U Shown

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Contents Subject to Change
Rev. 03

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Specifications

	UXP-RS4K-4	UXP-RS4K-4U
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	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)
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	4 SFP+ (see available accessories)	4 SFP+ (see available accessories)
Output Scaling	Yes	Yes
Output Alpha Blending Support	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	Yes
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
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 (45.97mm x 209.55mm x 166.62mm)	1.81 in x 8.25 in x 6.56 in (45.97mm x 209.55mm x 166.62mm)
Weight	42.26 oz (1198g)	42.26 oz (1198g)

Ordering Information

UXP-RS4K-4	Standalone 10GE AV quad display processor/receiver: either 4 HDMI inputs or 4 transport inputs, 2 HDMI outputs, audio, Ethernet, and HID USB
UXP-RS4K-4U	Standalone 10GE AV quad display processor/receiver: either 4 HDMI inputs or 4 transport inputs, 2 HDMI outputs, audio, Ethernet, HID USB, and USB 2.0 Host and Device

Available Accessories

UXP-SFP-10G-T	SFP+, 10G BASE-T RJ45, 30m

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