UXP-TRXS-UCPT/UXP-TRXS-UCPT-P
Standalone AV Gateway w/ USB Capture

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 (HDMI type A) and one USB AV output (USB-C)
- SDI input/output, analog audio input and output, two USB 2.0 ports, two USB HID ports, and one serial port
- Input resolution support up to 3840x2160p @ 30 Hz
- USB capture support up to 1920x1080p @ 60 Hz
- 802.3at Type 2 PoE+ support for UXP-TRXS-UCPT-P
- Standalone device with integrated fan
- Ultra low latency transport over transport link
- Third-party control support

Standalone AV Gateway

The UXP-TRXS-UCPT standalone AV gateway is a single device that can either be used as a receiver, a transmitter, or both at the same time. Due to the bi-directional nature of its links, the UXP-TRXS-UCPT can be used to both send and receive HDMI/SDI video and audio, USB HID, and USB 2.0 data. As a receiver, the UXP-TRXS-UCPT can receive up to two video streams over IP, have access to both HDMI and SDI sources, and display any two as Main and Picture-in-Picture (PiP) with user configurable layouts. Additionally, an RS-232/RS-422 port is available for serial communication, transport, and control. Moreover, the UXP-TRXS-UCPT-P model supports 802.3at Type 2 PoE+, which omits the need for an external power supply. **Note:** If utilizing USB 2.0 on the UXP-TRXS-UCPT-P, the use of a UXP-PS-12V5A power supply is required.
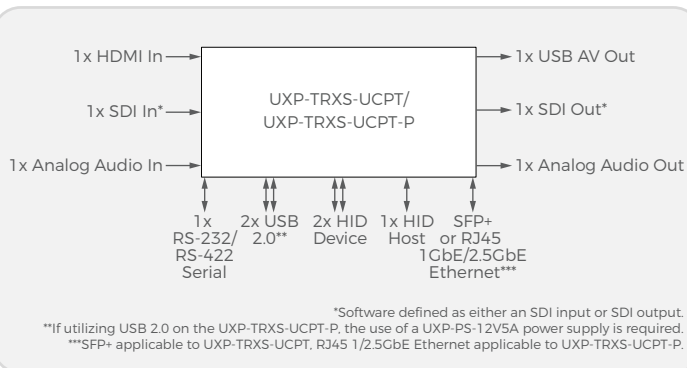
Integrated USB Capture Functionality

In addition to its AV transport capabilities, the UXP-TRXS-UCPT presents itself to a host Operating System (OS) as a video and audio USB capture device. Whether the source is local (via the HDMI and SDI input port) or remote (via IP transport), the UXP-TRXS-UCPT will capture high-quality AV signals and output them via its USB AV Out port at up to 1920x1080p @ 60 Hz. To an OS (e.g. Microsoft Windows), the UXP-TRXS-UCPT looks like an audio-enabled webcam and you can use any of your favorite applications for recording, editing, video conferencing, streaming, and more. Coupled with the dual receive and PiP capability, you are empowered to be your own media director with the ability to select network or local media and video layouts in real-time.
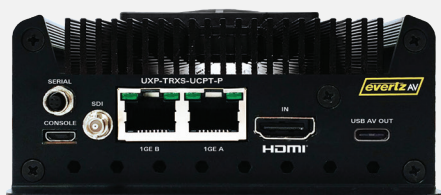
Easy Setup, No Programming Required

The UXP-TRXS-UCPT is a managed element of the NUCLEUS platform. 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. Whether big or small, deployments of all sizes are handled the same way, using the same consistent process.
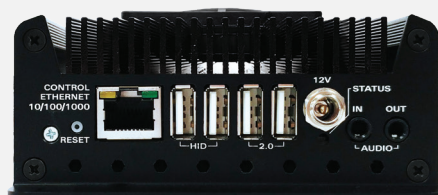
Inputs and Outputs

Input	Device	Output
1x HDMI In →		→ 1x USB AV Out
1x SDI In* →	UXP-TRXS-UCPT/ UXP-TRXS-UCPT-P	→ 1x SDI Out*
1x Analog Audio In →		→ 1x Analog Audio Out

1x RS-232/RS-422 Serial | 2x USB 2.0** | 2x HID Device | 1x HID Host | SFP+ or RJ45 1GbE/2.5GbE Ethernet***

*Software defined as either an SDI input or SDI output.
**If utilizing USB 2.0 on the UXP-TRXS-UCPT-P, the use of a UXP-PS-12V5A power supply is required.
***SFP+ applicable to UXP-TRXS-UCPT, RJ45 1/2.5GbE Ethernet applicable to UXP-TRXS-UCPT-P.

Front | **Rear**

UXP-TRXS-UCPT-P Shown

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Contents Subject to Change
Rev. 02

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Specifications

Specifications	UXP-TRXS-UCPT	UXP-TRXS-UCPT-P
Video Inputs	1 HDMI (type A) 1 SDI (HD-BNC connector – software defined)	1 HDMI (type A) 1 SDI (HD-BNC connector – software defined)
Video Outputs	1 USB AV Out (type C) 1 SDI (HD-BNC connector – software defined)	1 USB AV Out (type C) 1 SDI (HD-BNC connector – software defined)
Supported Resolutions	Input – Up to 3840x2160p @ 30 Hz USB Capture – Up to 1920x1080p @ 60 Hz	Input – Up to 3840x2160p @ 30 Hz USB Capture – Up to 1920x1080p @ 60 Hz
Audio Inputs	1 stereo unbalanced analog (3.5mm)	1 stereo unbalanced analog (3.5mm)
Audio Input Impedance	25K Ω	25K Ω
Audio Input Level	Line level	Line level
Audio Outputs	1 stereo unbalanced analog (3.5mm)	1 stereo unbalanced analog (3.5mm)
Audio Output Impedance	4 to 8 Ω	4 to 8 Ω
Audio Output Level	Line 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)	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) **Note:** The UXP-PS-12V5A power supply (see Available Accessories) is required when using the USB 2.0 ports.
Control Port (Out-of-Band)	10/100/1000 BASE-T RJ45 Ethernet Port (IEEE 802.3)	10/100/1000 BASE-T RJ45 Ethernet Port (IEEE 802.3)
Transport Port	2 SFP+ cages. Either can be used for NUCLEUS transport at rates of 1GbE, 2.5GbE or 10GbE (see Available Accessories)	2.5GbE/1GbE Multi-Gigabit port
RS-232/RS-422	M5 DIN connector (optional M5 to DB9 converter cable available – see Available Accessories)	M5 DIN connector (optional M5 to DB9 converter cable available – see Available Accessories)
Output Scaling	Yes	Yes
Picture-in-Picture (PiP) Support	Yes	Yes
HDMI Audio	Yes	Yes
In-Band Control	Yes	Yes
Control System	NUCLEUS Session Manager	NUCLEUS Session Manager
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 optional power adapter – see Available Accessories)
Power Supply	100-240V / 47-63Hz AC input; 12VDC / 5A output	802.3at Type 2 PoE+ (provides power to device over Cat6a/Cat7 cable) (Optional power supply available – see Available Accessories)
Power Consumption	TBD	TBD
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)	1.75in x 4.13in x 7.43in (44.45mm x104.90mm x 188mm)	1.75in x 4.13in x 7.43in (44.45mm x104.90mm x 188mm)
Weight	TBD	TBD

Ordering Information

UXP-TRXS-UCPT	Standalone transceiver and USB capture up to 10GbE with fan: single HDMI input, single USB-C AV output, HD-BNC connector for SDI input and output, analog audio, USB 2.0, USB HID, and RS-232/RS-422
UXP-TRXS-UCPT-P	Standalone transceiver and USB capture up to 2.5GbE with fan: single HDMI input, single USB-C AV output, HD-BNC connector for SDI input and output, analog audio, USB 2.0, USB HID, and RS-232/RS-422

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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