

# UXP-TRXSQ-USB2/UXP-TRXSQ-USB2-P Fanless Standalone 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)
- SDI input/output, analog audio input and output, two USB 2.0 ports, two USB HID ports, and one serial port
- Resolution up to 3840x2160p @ 30 Hz
- Fanless device passively cooled by convection air flow
- 802.3at Type 2 PoE+ support for UXP-TRXSQ-USB2-P
- Dual receive mode allowing for PIP functionality
- Ultra low latency transport over transport links
- Third-party control support



## Standalone AV Gateway

The UXP-TRXSQ-USB2 standalone AV gateway is a device that can either be used as a receiver, a transmitter, or both at the same time. Due to the bi-directional nature of the links the UXP-TRXSQ-USB2 can be used to both send and receive video (with the video source/sink being either HDMI or SDI), 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-TRXSQ-USB2 can be used for any connection point.

## Live AV Over IP Transport

Using up to 10G Ethernet (or 1GE/2.5GE for the UXP-TRXSQ-USB2-P model), the UXP-TRXSQ-USB2 both encapsulates and de-encapsulates video, audio, USB HID, and USB 2.0 data simultaneously. The UXP-TRXSQ-USB2 has two HDMI ports (one receive and one transmit, supporting resolutions of up to 3840x2160p @ 30 Hz) and transports them with ultra low latency over its transport links. The UXP-TRXSQ-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. If PoE is required for your application, the UXP-TRXSQ-USB2-P model is available, which supports 802.3at Type 2. **Note:** If utilizing USB 2.0 on the UXP-TRXSQ-USB2-P, the use of a UXP-PS-12V5A power supply is required.

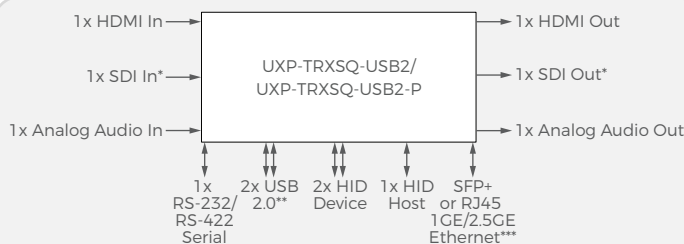
## Fully Integrated with the NUCLEUS Platform

The UXP-TRXSQ-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

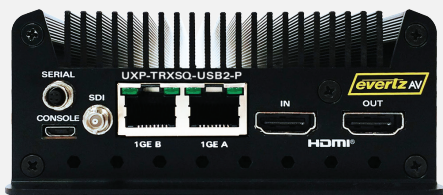
The NUCLEUS platform operates on a simplified configuration framework allowing administrators the ability to set up a fully functional AV distribution network in no time at all without the hassles associated with most AV distribution platforms available on the market today. The process has been streamlined 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

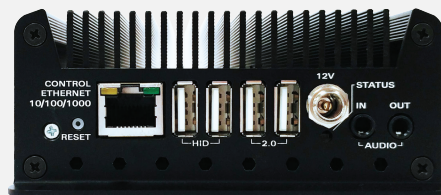


\*Software defined as either an SDI input or SDI output.  
\*\*If utilizing USB 2.0 on the UXP-TRXSQ-USB2-P, the use of a UXP-PS-12V5A power supply is required.  
\*\*\*SFP+ applicable to UXP-TRXSQ-USB2, RJ45 1GE/2.5GE Ethernet applicable to UXP-TRXSQ-USB2-P.

Front



Rear



UXP-TRXSQ-USB2-P Shown



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Contents Subject to Change  
Rev. 02

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# UXP-TRXSQ-USB2/UXP-TRXSQ-USB2-P

## Fanless Standalone AV Gateway w/ USB 2.0



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### Specifications

	UXP-TRXSQ-USB2	UXP-TRXSQ-USB2-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 HDMI (type A) 1 SDI (HD-BNC connector - software defined)	1 HDMI (type A) 1 SDI (HD-BNC connector - software defined)
Supported Resolutions	Up to 3840x2160p @ 30 Hz	Up to 3840x2160p @ 30 Hz
Audio Inputs	1 stereo unbalanced analog (3.5mm)	1 stereo unbalanced analog (3.5mm)
Audio Input Impedance	25K $\Omega$	25K $\Omega$
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 $\Omega$	4 to 8 $\Omega$
Audio Output Level	Line level	Line level
Ethernet Transport	10/100/1000BASE-T RJ45 Ethernet Port (IEEE 802.3)	10/100/1000BASE-T RJ45 Ethernet Port (IEEE 802.3)
Ethernet Connector	RJ45	RJ45
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) <b>Note:</b> The UXP-PS-12V5A power supply (see Available Accessories) is required when using the USB 2.0 ports.
Transport Ports	2 SFP+ (see Available Accessories)	2 2.5GE RJ45 ports
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	25W (USB unmounted)	25W (USB unmounted)
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 x 104.90mm x 188mm)	1.75in x 4.13in x 7.43in (44.45mm x 104.90mm x 188mm)
Weight	31.04 oz (880g)	31.89 oz (904g)

### Ordering Information

UXP-TRXSQ-USB2	Fanless standalone transceiver up to 10GE: single HDMI input, single HDMI output, HD-BNC connector for SDI input and output, analog audio, USB 2.0, USB HID, and RS-232/RS-422
UXP-TRXSQ-USB2-P	Fanless standalone 2.5GE transceiver: single HDMI input, single HDMI output, HD-BNC connector for SDI input and output, analog audio, USB 2.0, USB HID, RS-232/RS-422, and 802.3at Type 2 PoE+ 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)
AV-FAN-GW	Fan kit (USB powered fan with USB Y-adapter and fan guard)

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