UXP-TXSQ-2-USB2-P

Fanless Standalone Dual-Channel HDMI AV Transmitter 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.

4K | HDMI | HI-SPEED USB CERTIFIED

Key Features

- Two HDMI inputs (HDMI type A)
- One SDI input, analog audio input and output, two USB 2.0 ports, two USB HID ports, and one serial port (RS-232/RS-422)
- Resolution up to 3840x2160p @ 30 Hz
- Fanless device passively cooled by convection air flow
- 802.3at Type 2 PoE+ support
- Ultra low latency transport over 1GbE/2.5GE links
- Third-party control support

Standalone AV Transmitter w/ USB 2.0

EvertzAV's UXP-TXSQ-2-USB2-P standalone AV transmitter is a feature-rich, dual-channel HDMI video and audio transmit gateway supporting 1G and 2.5G transport rates. The UXP-TXSQ-2-USB2-P has been designed to take advantage of the fact that more and more entry-level COTS switches support 2.5G, and thus it employs intelligent auto sensing technology that automatically adjusts video quality based on the available transport rate. The UXP-TXSQ-2-USB2-P can be used send video (with the video source being either HDMI or SDI), audio, serial, USB HID, and USB 2.0 data. It is a compact and quiet standalone device that dissipates heat by convection air flow with the use of a heatsink and, with proper mounting[1], can be installed in various in room locations, including behind monitors, and under desks, lecterns, and floor boxes.
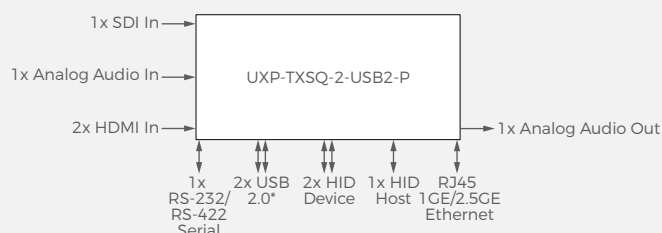
Live AV Over IP Transport

Using 1Gbps/2.5Gbps Ethernet the UXP-TXSQ-2-USB2-P encapsulates video, audio, USB HID, and USB 2.0 data simultaneously. The UXP-TXSQ-2-USB2-P has two HDMI inputs and one SDI input (supporting resolutions of up to 3840x2160p @ 30 Hz)[2] and transports them with ultra low latency over its 1GE/2.5GE links. The UXP-TXSQ-2-USB2-P supports both embedded audio on HDMI/SDI as well as analog audio.
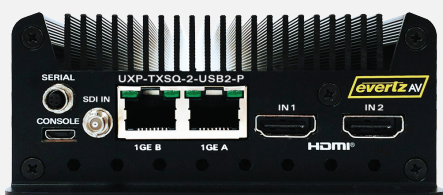
Additionally, USB connections are provided for both USB HID device connectivity over your network and USB 2.0 data transport and an RS-232/RS-422 port is available for serial communication, transport, and control. The UXP-TXSQ-2-USB2-P also supports 802.3at Type 2 PoE+ but can be powered using an optional power supply[3].

Fully Integrated with the NUCLEUS Platform

The UXP-TXSQ-2-USB2-P 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.
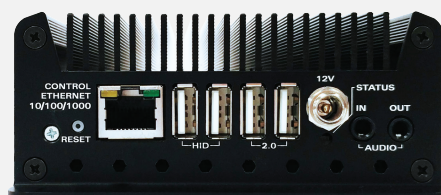
Inputs and Outputs

```
1x SDI In ──────►┌──────────────────────┐
                 │                      │
1x Analog Audio In ──►│   UXP-TXSQ-2-USB2-P   │
                 │                      │
2x HDMI In ──────►│                      │──► 1x Analog Audio Out
                 └──┬──┬───┬───┬───┬──┘
                    ▲  ▲▲  ▲▲  ▲▲  ▲
                   1x  2x USB 2x HID 1x HID  RJ45
                RS-232/  2.0*  Device  Host  1GE/2.5GE
                RS-422                       Ethernet
                Serial
```

*If utilizing USB 2.0 on the UXP-TXSQ-2-USB2-P, the use of a UXP-PS-12V5A power supply is required.

Front

Rear

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Specifications

Video Inputs	2 HDMI (type A) 1 SDI (HD-BNC connector)
Supported Resolutions	Up to 3840x2160p @ 30 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
Ethernet Transport	10/100/1000BASE -T RJ45 Ethernet Port (IEEE 802.3)
Ethernet Connector	RJ45
USB	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.
Transport Ports	2 2.5GE RJ45 ports
RS-232/RS-422	M5 DIN connector (optional M5 to DB9 converter cable available – see Available Accessories)
HDMI Audio	Yes
In-Band Control	Yes
Control System	NUCLEUS Session Manager
Web-Based Configuration	Yes (via NUCLEUS Session Manager)
Security Compliance	Compliant with applicable DoD Network Devices Security Technical Implementation Guide (STIG)
DC Input Voltage	12VDC (via optional power supply – see Available Accessories)
Power Supply	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)
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)	1.75in x 4.13in x 7.43in (44.45mm x104.90mm x 188mm)
Weight	31.89 oz (904g)

Ordering Information

UXP-TXSQ-2-USB2-P	Fanless standalone 1GE/2.5GE transmitter: dual HDMI input, HD-BNC connector for SDI input, analog audio, USB 2.0, USB HID, RS-232/RS-422, and 802.3at Type 2 PoE+ support

Available Accessories

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/47-63 Hz AC input; 12VDC/5A output)
AV-FAN-GW	Fan kit (USB powered fan with USB Y-adapter and fan guard)

[1]Please refer to the "UXP-TRXSQ-USB2/TXSQ/TXSQ-2/TXSQ-2-USB2-P/RXSQ Installation Notes" for instructions on how to properly mount your UXP AV gateway.
[2]Dual 3840x2160p @ 30 Hz video transport is only supported by the UXP-TXSQ-2-USB2-P when deployed in a 2.5GE network.
[3]If utilizing USB 2.0 on the UXP-TXSQ-2-USB2-P, the use of a UXP-PS-12V5A power supply (see Available Accessories) is required.

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