

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 2.0a input and one HDMI 2.0a output as well as one 12G SDI input and one 12G SDI output (3G/ HD/UHD via SFP+)



- Simultaneous single HEVC/H.264 encode and decode up to 4K60, 10-bit, 4:2:2 color sampling (selectable bitrate from 1 50 Mbps)
- Analog audio input/output (via one Mini XLR connector) with AAC compressed audio support
- Streaming protocol support for SRT and RTMP
- Fanless device passively cooled by convection air flow

Standalone HEVC/H.264 Encoder/Decoder

The UXP-TRXS-HC is a standalone HEVC/H.264 encoder/decoder that features one HDMI input and one HDMI output with the option of installing a 12C SDI SFP+ transceiver to allow for the transport of SDI video and embedded audio. The UXP-TRXS-HC can simultaneously encode and decode video signals with a maximum resolution of up to 4K60 (10-bit, 4:2:2). The UXP-TRXS-HC is a compact and fanless standalone device with robust encode/decode capabilities – an ideal gateway for various applications such as live streaming, surveillance, broadcasting, and more.

Advanced Media Compression Technology

The UXP-TRXS-HC employs standards-based HEVC (H.265) and H.264 video compression technology and outputs encoded streams that can be decoded using additional UXP-TRXS-HCs or by other third-party decoders. HEVC and H.264 encoding is supported natively for progressive standards, while HEVC encoding is supported for interlaced standards,



and the encoding bitrate is configurable from 1 to 50 Mbps. With regards to the its audio capabilities, the UXP-TRXS-HC supports AAC audio compression for HDMI/SDI embedded audio sources and audio signals coming from its analog audio Mini XLR input.

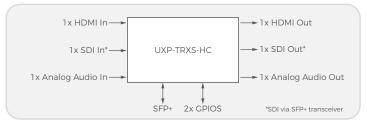
Versatile Streaming Options

The UXP-TRXS-HC supports the SRT (Secure Reliable Transport) and RTMP (Real-Time Messaging Protocol) streaming protocols. The UXP-TRXS-HC can be used to stream point-to-point over the Internet or over a local network allowing for a multitude of high-quality ultra low latency professional applications. With its powerful encoding/decoding functions and comprehensive streaming features the UXP-TRXS-HC is truly one of the most versatile gateways in the market today.

Fully Integrated with the NUCLEUS Platform

The UXP-TRXS-HC 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 devices can be interconnected using a COTS (Commercial Off The Shelf) network switch and then configured and managed by the NUCLEUS Session Manager.

Inputs and Outputs







av.evertz.com

Contents Subject to Change Rev. 02 North America/International AV Sales avsales@evertz.com +1 905-335-3700

Rear



Specifications

| | 1 HDMI 2.0a |
|--------------------------------|---|
| Video Inputs | 1 12G SDI (via SFP+) |
| Video Outputs | 1 HDMI 2.0a |
| | 1 12C SDI (via SFP+) 4K60 (3840x2160p@59.94) and 4K50 (3840x2160p@50) |
| | 1080p@59.94 |
| Supported Video Resolutions | 1080i@59.94 (interlaced formats are supported in HEVC mode only) |
| | 720p@59.94 and 720p@30 |
| Video Compression | HEVC/H.265, H.264 (8-bit and 10-bit, 4:2:2 color sampling) with selectable rates from 1 Mbps to 50 Mbps |
| Analog Audio Inputs/Outputs | 1 8-pin Mini XLR input/output (balanced mono) |
| Supported Audio Sampling | 48/96kHz up to 24-bit, PCM (Broadcast applications) |
| Frequency and Bitrate | 32/44.1/48/96/192kHz @ 16/20/24-bit (ProAV applications) |
| Audio Compression | AAC 2.0 and AAC 5.1 |
| Supported Streaming Protocols | SRT |
| | RTMP |
| Control and Ethernet Transport | 10/100/1000Base -T RJ45 Ethernet Port (IEEE 802.3) |
| USB | 1 USB port for configuration/maintenance (micro type B) |
| SFP Ports | 1 SFP+ for 12G SDI (see available accessories) |
| GPIOs | 2 (software definable as input or output) |
| Control System | NUCLEUS Session Manager |
| | In-band control |
| Other Features | HDMI output scalers for interoperability with most monitors independent of streaming video resolution Customizable EDID tables |
| | Web-based configuration (via NUCLEUS Session Manager) |
| DC Input Voltage | 12VDC via supplied power adapter |
| Power Supply | 100-240V / 47-63Hz AC input; 12VDC / 5A output |
| Power Consumption | 40W |
| 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 | 31.04 oz (880g) |

Ordering Information

| UXP-TRXS-HC | Fanless standalone 10-bit 4:2:2 HEVC/H.264 encoder/decoder |
|-------------|--|
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Available Accessories

SFP3TR-HDBNC-12

SFP+, 12G-SDI transceiver with HD-BNC connectors

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