

UXP-TRXS-5G

Standalone 5G HEVC/H.264 Encoder/Decoder



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 2.0a input and one HDMI 2.0a output; 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
- 5G module for AV transport over mobile networks (Sub-6 GHz and [optional] mmWave support)
- Streaming protocol support for SRT and RTMP
- Fanless device passively cooled by convection air flow



and the encoding bitrate is configurable from 1 to 50 Mbps. With regards to its audio capabilities, the UXP-TRXS-5G 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-5G supports the SRT (Secure Reliable Transport) and RTMP (Real-Time Messaging Protocol) streaming protocols. The UXP-TRXS-5G 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, comprehensive streaming features, and wireless 5G capabilities, the UXP-TRXS-5G is truly one of the most versatile gateways in the market today.

Standalone 5G HEVC/H.264 Encoder/Decoder

The UXP-TRXS-5G is a standalone 5G-enabled HEVC/H.264 encoder/decoder that features one HDMI input and one HDMI output with the option of installing a 12G SDI SFP+ transceiver to allow for the transport of SDI video and embedded audio. The UXP-TRXS-5G can simultaneously encode and decode video signals with a maximum resolution of up to 4K60 (10-bit, 4:2:2). The UXP-TRXS-5G is a compact and fanless standalone device utilizing 5G wireless technology – an ideal gateway for applications such as live streaming, mobile broadcasting, mobile surveillance, and remote operation.

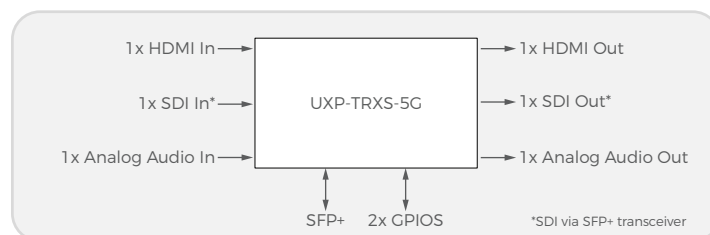
Advanced Media Compression Technology

The UXP-TRXS-5G employs standards-based HEVC (H.265) and H.264 video compression technology and outputs encoded streams that can be decoded using additional UXP-TRXS-5Gs 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,

Fully Integrated with the NUCLEUS Platform

The UXP-TRXS-5G 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.

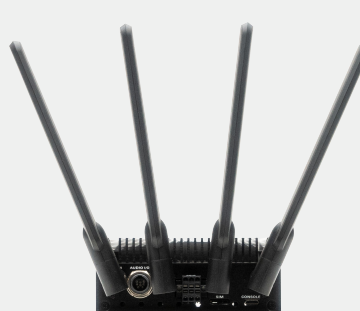
Inputs and Outputs



Front



Rear



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Contents Subject to Change
Rev. 02

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UXP-TRXS-5G

Standalone 5G HEVC/H.264 Encoder/Decoder



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Specifications

Video Inputs	1 HDMI 2.0a 1 12G SDI (via SFP+)
Video Outputs	1 HDMI 2.0a 1 12G SDI (via SFP+)
Supported Video Resolutions	4K60 (3840x2160p@59.94) and 4K50 (3840x2160p@50) 1080p@59.94 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 Frequency and Bitrate	48/96kHz up to 24-bit, PCM (Broadcast applications) 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 Ethernet	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)
5G Connectors	4 210mm SMA connectors (for Sub-6 direct connect antennas)
SIM Card Connector	1 single nano SIM card connector
GPIOs	2 (software definable as input or output)
Control System	NUCLEUS Session Manager
Other Features	In-band control 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 x 104.90mm x 188mm) (without antennae)
Weight	33.51 oz (950g)

Ordering Information

UXP-TRXS-5G	Fanless standalone 5G 10-bit 4:2:2 HEVC/H.264 encoder/decoder
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Available Accessories

SFP3TR-HDBNC-12G	SFP+, 12G -SDI transceiver with HD-BNC connectors
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