

UXP-TRS4K-12G

Standalone 4K/60 12G-SDI Gateway



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

- Two 12G-SDI inputs or outputs (software defined, via SFP+)
- Three main modes of operation: dual receive, dual transmit, and single transceiver
- Resolution support for up to 4K60 @ 60 Hz
- Ultra low latency transport over 1GbE/2.5GbE/10GbE link
- Third-party control support



Standalone 4K 12G-SDI Gateway

The UXP-TRS4K-12G is a versatile 12G-SDI gateway that has three main modes of operation:

- **Dual transmit mode** allows you to ingest uncompressed broadcast video and audio from the two 12G-SDI inputs and output via its transport link at up to 4K60 with visually lossless compression.
- **Dual receive mode** allows you to ingest up to 4K60 compressed video and audio from the transport link and output via the two SDI outputs uncompressed.
- **Single transceiver mode** allows you to use one 12G-SDI port as an input and one 12G-SDI port as an output.

The UXP-TRS4K-12G is a standalone device, which is compact and quiet and can be installed in various in-room locations, including behind monitors, under/inside desks and lecterns, and floor boxes.

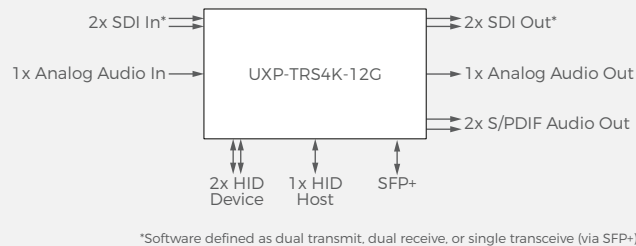
Advanced 12G SDI Interfaces

For its SDI inputs and outputs, the UXP-TRS4K-12G supports resolutions of up to 3840px2160p @ 59.94 Hz. The UXP-TRS4K-12G employs EvertzAV's latest in scaling technology with high-quality algorithms providing the best picture quality possible as well as customizable EDID tables on the output paths that ensure the smoothest handoff between sources and sinks.

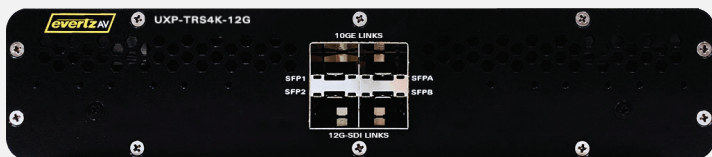
Fully Integrated with the NUCLEUS Platform

The UXP-TRS4K-12G 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.

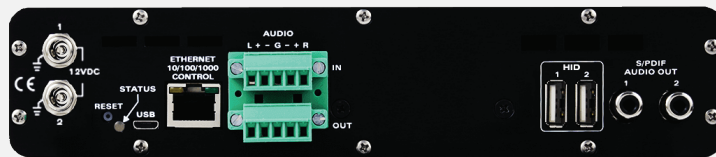
Inputs and Outputs



Front



Rear



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Contents Subject to Change
Rev. 02

North America/International AV Sales

avsales@evertz.com

+1 905-335-3700

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Specifications

Video Inputs	2x 12G-SDI (via SFP+)
Video Outputs	2x 12G-SDI (via SFP+)
Supported Resolutions	4K60 (3840x2160p@59.94) and 4K50 (3840x2160p@50) 1080p@59.94 1080i@59.94 720p@59.94 and 720p@30
Audio Inputs	1x stereo balanced analog (terminal header)
Audio Input Impedance	High impedance
Audio Input Level	Line level (+4dBu)
Audio Outputs	1x stereo balanced analog (terminal header) 2x S/PDIF
Audio Output Impedance	600 Ω
Audio Output Level	Line level (+4dBu)
USB/HID	2x HID device ports (type A) 1x HID host port (micro type B)
Control Port (Out-of-Band)	10/100/1000 BASE -T RJ45 Ethernet Port (IEEE 802.3)
Transport Port	2x SFP+ cages. Either can be used for NUCLEUS transport at rates of 1GbE, 2.5GbE or 10GbE (see available accessories)
Output Scaling	Yes
SNMP Support	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) findings
DC Input Voltage	12VDC via supplied power adapter
Power Supply	110-220V / 50-60Hz AC input; 12VDC / 11.5A output
Power Consumption	<60W
Operating Temperature	32° to 104° F (0° to 40° C)
Relative Humidity	10% to 90% RH (non-condensing)
Dimensions (H x W x D)	1.81in x 8.25in x 6.56in (45.97mm x 209.55mm x 166.62mm)
Weight	42.26 oz (1198g)

Ordering Information

UXP-TRS4K-12G	Standalone 4K/60 12G-SDI gateway with audio, Ethernet, and HID
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Available Accessories

SFP3TR-HDBNC-12G	SFP+, 12G-SDI transceiver with HD-BNC connectors
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
3405PS-6HO	Six output primary and redundant auto-ranging power supply, 100V - 240V AC at 50/60Hz
UXP-RACK-PAF-1	Panel assembly for rack mounting one UXP-TRS4K-12G gateway in a 19in rack
UXP-RACK-PAF-2	Panel assembly for rack mounting two UXP-TRS4K-12G gateways in a 19in rack

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