PlexusAV

P-AVN-SCG Stream Conversion Gateway

OVERVIEW

PlexusAV's P-AVN-SCG Stream Conversion Gateway allows users to break free from the traditional AV-over-IP signal constraints. Serving as a bridge between all AV over IP technologies, the stream conversion gateway translates signals into an IPMX network. This means NDI and other AV over IP signals can be used in an IPMX native network.

It gets even better, with the ability to transmit and receive from public or WAN connections via SRT, RIST and more. Quick and easy to deploy based on the onboard graphical web interface that is workflow based.

WHY CHOOSE THE STREAM CONVERSION GATEWAY?

- Universal AV Signal Compatibility - With multiprotocol support for IPMX, SRT, RIST, HLS, NDI®HX, RTP, and MPEG/IP, this gateway is engineered to be compatible across various platforms. The device integrates smoothly with existing AV infrastructures, streamlining signal translation and reducing complexity.
- Versatile Network Bridge - Whether transmitting from public or WAN connections, or receiving and translating public streams into PlexusAV's ecosystem, the Stream Conversion Gateway allows AV signals to flow effortlessly between different networks. It enables flexible distribution for scenarios like digital signage, e-sports, educational content networks, and large-venue entertainment.
- User-Friendly, Workflow-Based Interface - Built with an intuitive web interface, the P-AVN-SCG makes deployment fast and easy, regardless of experience level. This workflow-based design helps operators configure and manage the gateway with minimal training and maximum efficiency.
- Seamless Third-Party Integration- Equipped with NMOS and a HTTP/HTTPS API, the gateway ensures compatibility with third-party IPMX devices and solutions, giving users the freedom to design AV systems that meet unique needs without restrictive limitations.

APPLICATIONS

- Extract signals from an IPMX system and convert to public internet delivery formats
- Receive public internet streams and convert them to the PlexusAV eco-system
- Digital signage signal distribution
- E-Sports and content creation
- Meeting rooms
- Entertainment, stadiums and large venues
- Educational content networks

KEY FEATURES

- Multiprotocol conversion supporting IPMX, SRT, RIST, HLS, NDI®HX , RTP and MPEG/IP
- Supports NMOS for full compatibility with 3rd party IPMX devices and solutions
- Intuitive workflow based web interface
- Optional NDI®HX support*
- Optional Dante AV-H support*
- HTTP/HTTPS API for 3rd party integration

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Specifications

IPMX RECEIVE AND TRANSMIT

Receive

Input Type:	IPMX H.264/265
Bitrate range:	.25-200Mbps
IGMP Compatibility:	Version 2 and 3

Transmit

Output Format:	UDP,RTP (with extension headers), Multicast and Unicast, CBR and VBR Streams
Bitrate Range:	.25-200Mbps

NDI-HX RECEIVE AND TRANSMIT

Receive

Input Type:	IPMX H.264/265
Bitrate range: .	25-200Mbps
IGMP Compatibility:	Version 2 and 3

Transmit

Output Format:	UDP,RTP (with extension headers), Multicast and Unicast, CBR and VBR Streams
Bitrate Range:	.25-200Mbps

MPEG/IP RECEIVE AND TRANSMIT

Receive

Input Type:	UDP,RTP (with extension headers), Multicast and Unicast, CBR and VBR Streams Multicast Filtering
Forward Error Correction:	SMPTE ST 2022-1 FEC
Bitrate range: .	25-200Mbps
IGMP Compatibility:	Version 2 and 3

Transmit

Output Format:	IPMX, UDP,RTP (with extension headers), Multicast and Unicast, CBR and VBR Streams
Bitrate Range:	.25-200Mbps

SRT RECEIVE AND TRANSMIT

Receive

Protocol and IP range:	UDP, Unicast
Negotiation Modes:	Caller, Listener, Rendezvous
Latency:	20-8000Ms, user configurable
Bitrate Range:	0.25-50Mbps per stream
Encryption:	AES-128/256

Transmit:

Protocol and IP range:	UDP, Unicast
Negotiation Modes:	Caller, Listener, Rendezvous
Latency:	20-8000Ms, user configurable
Bitrate Range:	0.25-50Mbps per stream
Encryption:	AES-128/256

DATA INTERFACES

Ethernet 1:	RJ-45 10/100/1000 Auto-Negotiating
Ethernet 2:	RJ-45 10/100/1000 Auto-Negotiating

MANAGEMENT

WebUI:	On-board web interface
External Control:	HTTP/HTTPS, GraphQL API
NMOS Support:	IS-04 and IS-05

DIMENSIONS/POWER

Size:	2.2” x 5” x 5” (HxWxD) 55mm x 128mm x 128mm
Weight:	1.3 lbs (0.6kg)
Power:	100-240V/50-60Hz/Max: 120W