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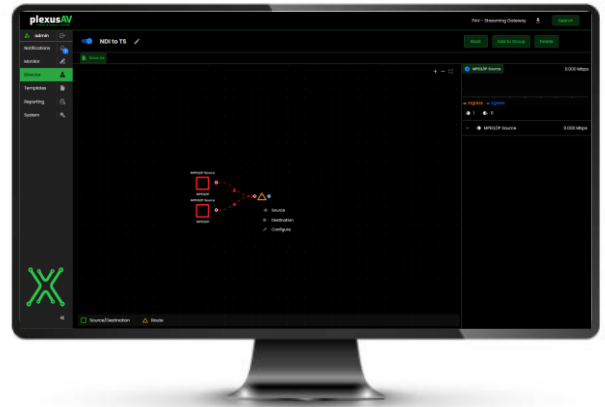+1.605.978.4800
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Stream Conversion Gateway

P-AVN-SCG

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.

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*
- Rest-API for 3rd party integration
- Small form factor

* Roadmap feature

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

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Specifications
P-AVN-SCG – Stream Conversion Gateway

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

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Specifications

P-AVN-SCG – Stream Conversion Gateway

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:	REST 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