

SDI2X Baseband to Uncompressed IP Turnaround



SDI2X Standalone
AGSDI2X openGear® card



OVERVIEW

Bridge the gap between baseband SDI infrastructure to the latest high-speed uncompressed IP networks. Utilizing SMPTE 2110 and SMPTE 2022-6 the SDI2X provides an easy-to-use, robust turnaround platform for transmitting and receiving uncompressed IP. Two form factors allow the SDI2X to be deployed in a variety of applications.

The standalone box features a compact, mobile design with a fully functional front panel and HDMI output. An openGear® card is also available for high density applications with up to 40 gateways per 2RU. Each SDI2X supports up to 4 channels of SDI <-> IP turnaround with each channel containing video, 16 channels of audio and transparent VANC support. SMPTE 2022-7 can be used for hitless input and output redundancy. PTP synchronization is available to ensure the SDI2X is full compatible in SMPTE 2110 networks. Create a seamless workflow utilizing the latest technologies with the Sencore SDI2X.

KEY FEATURES

- SMPTE 2110 and SMPTE 2022-6 to SDI conversion
- Standalone form factor with up to 4 channels of turnaround and uncompressed IP to HDMI output.
- openGear® form factor for dense IP to SDI turnaround. Up to 40 channels in 2RU!
- SMPTE 2022-7 for hitless input and output redundancy

APPLICATIONS

Camera Integration and Backhaul

Seamlessly plug existing SDI equipment into SMPTE 2022- 5/6/7 or 2110/TR-03 IP-based studio networks.

Monitoring Display, Video Wall, or Signage

Pull baseband or lightly compressed video content off of the IP network to display using the SDI or HDMI output.

Simplify Lab Connectivity

Test new equipment with a variety of different input or output formats. Convert to or from any of the popular IP compression or encapsulation methods; enabling testing without infrastructure rebuilds.

SPECIFICATIONS

I/O INTERFACES

SDI2X Standalone:

Video Connectors:

1x 3G-SDI BNC
1x HDMI 2.0 Interface
Additional 3x 3G-SDI BNC Optional

Ethernet Connectors:

Supported SFPs:

2x SFP+ Sockets (Data)
1 GbE Fiber/Copper (MSA-Compliant)
10 GbE Fiber (MSA-Compliant)

Ethernet Connectors:

1x RJ-45 1GbE (Control)

AGSDI2X openGear® card:

SDI Connectors:

4x 3G-SDI BNC
1x SFP for 12G-SDI (Optical or Coax)*

Ethernet Connectors:

Supported SFPs:

2x SFP+ Sockets
1 GbE Fiber/Copper (MSA-Compliant)
10 GbE Fiber (MSA-Compliant)

Additional I/O:

Standards:

8 Controllable GPIO (for Tally, etc.)*
SMPTE 2022-6
SMPTE 2110 Standards
SMPTE 2110-10
SMPTE 2110-20
SMPTE 2110-21
SMPTE 2110-30
SMPTE 2110-40
JPEG 2000/TR-01 Encode/Decode*

Capacity:

SDI2X Standalone:

4x FHD/HD/SD Video Services
8x PCM Audio Pairs
Full ANC Data

AGSDI2X openGear® card:

Synchronization:

Correction:

40x FHD/HD/SD Video Services (per 2RU)
SMPTE 2059 (IEEE 1588 PTP)
Hitless Switching (SMPTE 2022-7)
FEC (SMPTE 2022-1) for JPEG 2000*

Management

Control Interfaces:

Web Interface
Access via DashBoard
HTTP RESTful API
SNMP Status/Control/Traps
Syslog Alarm Support
Front Panel Interface (Standalone only)

Form Factor:

SDI2X Standalone:

Dimensions:

Rack Mount:

5.7"/145mm W x 6.7"/170mm D x 1RU
3 Units per 1RU Tray

AGSDI2X openGear® card:

Density:

Rack Mount:

10 Cards per openGear® 3.0 Chassis
2RU Frame

Power & Environment:

Standard:

120 VAC / 240 VAC
Dual, Redundant Supply Available
(AG card only)

Power Connector:

Operating Temp:

Standard IEC Line Cord
0 to 50 Degrees C

* Planned Roadmap