

570IPG-X19-10G

High Density IP Media Gateway

The 570IPG-X19-10G is Evertz' next generation low latency, ultra high-density gateway for SDI over 10GbE. In addition, the 570IPG-X19-10G features IP protocol conversion between SMPTE ST 2022-6, SMPTE RDD 37 (ASPEN) and SMPTE ST 2110.

With direct conversion of up to 18x SD/HD/3G signals to IP formats including SMPTE ST 2022-6, SMPTE RDD 37 (ASPEN) and SMPTE ST 2110, the 570IPG-X19 series delivers unparalleled conversion flexibility in a high-density form factor.

► Features & Benefits

System I/O:

- 18x SD/HD/3G SDI bi-directional on-the-fly configurable copper coax ports
- Broadcast standards support: 1080p/59.94, 1080p/50, 1080i/59.94, 1080i/50, 720p/59.94, 720p/50, 525i/59.94, 625i/50 and film rate standards
- 12x SFP+ ports in hot main/hot backup configuration with flexible channel mapping for bandwidth optimization

System Processing and Encapsulation over IP:

- Loopback of 10GbE to SDI path allow central NOC monitoring of remote SDI output
- Video at native resolution
- 4x groups of audio (4 mono channels per multicast address)
- Full VANC carriage
- Integrated Cross Connect for regeneration of SDI outputs
- Frame buffer that can be locked to local genlock or IEEE 1588 PTP and used for output phase alignment and auto timing
- AES67 audio packet time: 125µs or 1ms
- Pop suppression on output audio

The 570IPG-X19-10G also provides per-input AVM monitoring, auto timing, time-stamped Ethernet outputs.

The 570IPG-X19 series modules incorporate multipath for video, multi-flow packet merge and network bit error resilience for 100% QoS.

The 570IPG-X19-10G can be managed via Integrated HTTP web interface as well as SNMP management via Frame Controller.

Standard Compliances:

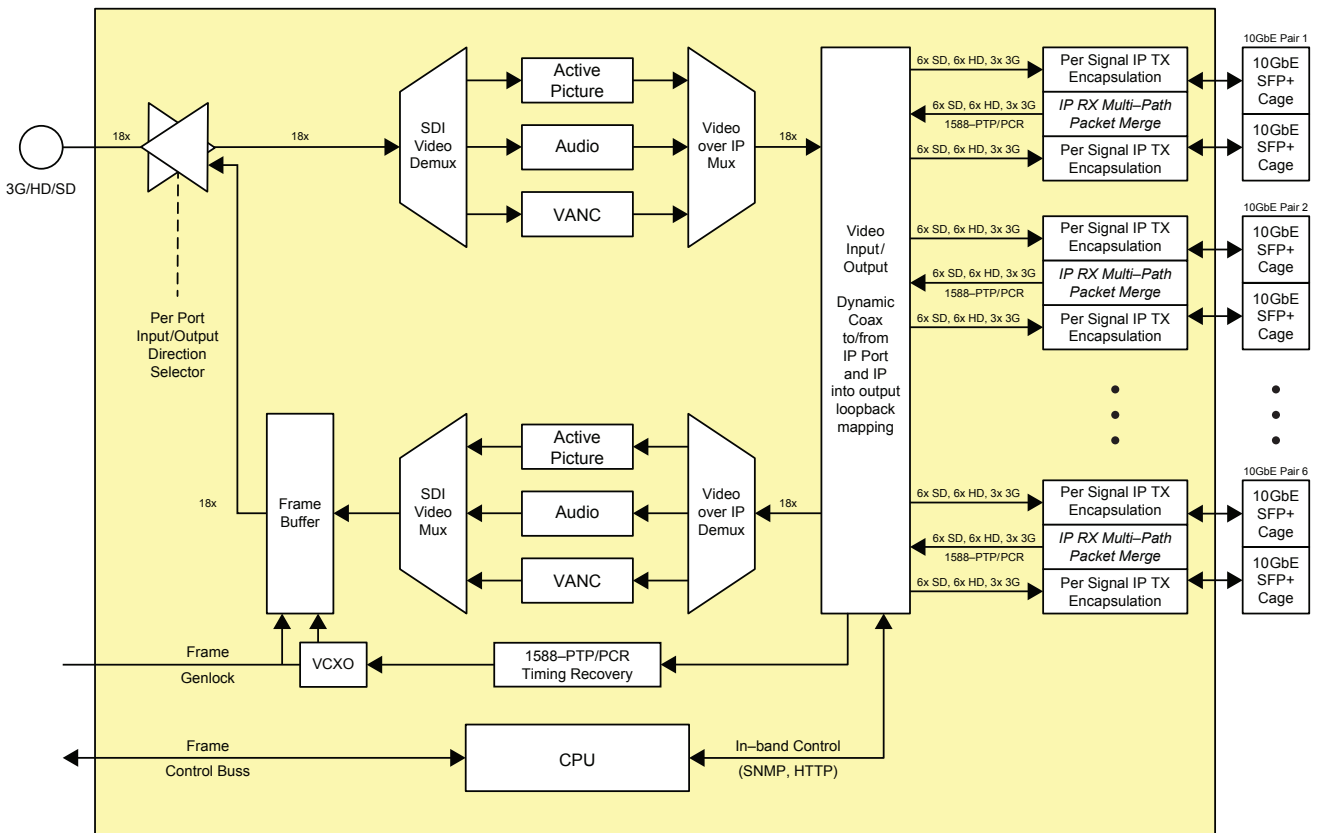
- Audio carriage as SMPTE ST 302, SMPTE ST 2022-6 or SMPTE ST 2110-30
- VANC carriage as SMPTE ST 2038, SMPTE ST 2022-6 or SMPTE ST 2110-40
- Video carriage as SMPTE RDD 37 (ASPEN), SMPTE ST 2022-6 or SMPTE ST 2110-20

Timing Management

- 570IPG-X19-10G optionally accepts SMPTE 2059-2 or Master PCR via 10GbE network connections with ability of time-stamping all content output over Ethernet (UTC at time of reception)

Control and Baseband Processing

- Modules support control over 570FC Ethernet or in-band from 10GbE interface
- Modules have on-board AVM on all baseband signals
- SNMP control from VistaLINK or MAGNUM Unified Control



The Complete Solution Provider





Specifications

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| <p>Serial Digital Video: Standards: SMPTE ST 424M (3 Gb/s), SMPTE ST 292M (1.5 Gb/s), SMPTE ST 259M (270 Mb/s)</p> <p>Serial Video Input: Number of Inputs: 18 Connector: DIN 1.0/2.3 Input Equalization: Automatic to 100m @ 3 Gb/s, 150m @ 1.5 Gb/s, and 350m @ 270 Mb/s Return Loss: >12dB up to .5 GHz, >10dB up to 3 GHz</p> <p>Serial Video Output: Number of Outputs: 18* (ports shared with inputs) Rise and Fall Time: Per SMPTE spec</p> | <p>Ethernet Interface: 12x 10GE SFP+</p> <p>Audio Encapsulation: SMPTE ST 2022-6 SMPTE ST 302 SMPTE ST 2110-30</p> <p>Metadata Encapsulation: SMPTE ST 2022-6 SMPTE ST 2038 SMPTE ST 2110-40</p> <p>Video Encapsulation: SMPTE ST 2022-6 SMPTE RDD 37 (ASPEN) SMPTE ST 2110-20</p> <p>Data Format: Ethernet/IP/UDP</p> | <p>Electrical: Power: 90W Voltage: 12VDC EMI/RFI: Complies with FCC Part 15, Class A, EU EMC directive</p> <p>Physical (number of slots): 2 slots</p> <p>Enclosures: 570FR: 15-slot 3RU chassis</p> <p>Frame Controller: 570FC: 1 slot</p> <p>Switching Reference: Reference Inputs: 2x BNC on 570FR Analog 525/625 PCR/PTP via 10GbE interface</p> |
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Ordering Information

570IPG-X19-10GE High Density IP Media Gateway (with support for 10GbE)

SFP+ sold separately

Ordering Options:
+XLINK XLINK rear plate

Feature Keys:

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|--------------------------------|--|
| 570IPG-FK-LANSFP-2 | Feature key to unlock 2 LAN access ports |
| 570IPG-FK-4x2 | 4x2 Clean Switch |
| 570IPG-FK-SDI-ASPEN | 18x SDI <—> ASPEN translations per device |
| 570IPG-FK-SDI-2022 | 18x SDI <—> 2022-6 translations per device |
| 570IPG-FK-SDI-2110 | 18x SDI <—> 2110 translations per device |
| 570IPG-FK-IP-2022 | 9x ASPEN <—> 2022-6 IP translations per device |
| 570IPG-FK-IP-2110 | 9x ASPEN <—> 2110 IP translations per device |
| 570IPG-FK-IP-2022-2110 | 9x 2110 <—> 2022-6 IP translations per device |
| 570IPG-FK-IP-ASPEN-2110 | 9x ASPEN <—> 2110 IP translations per device |