

7880IPG8-10GE2

Hybrid Baseband/Ethernet Infrastructure – Media Gateway

The 7880IPG8-10GE2 is the optimal Media Gateway video interface access card for video transport applications.

With direct conversion of up to 6 signals to direct mezzanine compression via JPEG2000, the 7880IPG8-10GE2 series delivers unparalleled processing densities. 7880IPG8-10GE2 port 7 & 8 also support up to 2 dedicated signal paths which could carry ASI.

7880IPG8-10GE2 also supports HD/SDI, SD/SDI and ASI encapsulation. Encapsulation can be configured for any path 1-8 over a 10Gig interface or user configurable 1 Gig interface.

The 7880IPG8-10GE2 feature Evertz 3rd generation ultra low latency, high density JPEG2000 codec technology over 10GE Ethernet or user configurable 1GE Ethernet.

► Features & Benefits

- 6 x 3G/HD/SD JPEG2000 Encoder/Decoder Standards Supported: 1080p/59.94, 1080p/50, 1080i/59.94, 1080i/50, 720p/59.94, 720p/50, 525i/59.94, 625i/50
- 3G/HD/SD/ASI Encapsulation over 10Gig or 1Gig
- **Mezzanine Encode Processing and encapsulation over IP:**
 - Video JPEG2000 encoded to native resolution
 - 4 groups of audio encapsulated (8 groups for validated 1080p/60 sources)
 - Full VANC encapsulation without delay
- **Mezzanine Decode Processing:**
 - Video JPEG2000 decoded from native resolution
 - 4 groups of audio de-encapsulated (8 groups for validated 1080p/60 sources)
 - Full VANC decapsulation and embedding on SDI outputs
 - Integrated Cross Connect for regeneration of SDI outputs

The 7880IPG8-10GE2 also provides per input AVM monitoring, auto-timing, time stamped Ethernet outputs, multi-resolution JPEG2000 streaming outputs.

The 7880IPG8 series modules incorporates patent pending multi-path, multi-flow packet merge base network bit error resilience for 100% QoS.

A HOT Redundant (HTR) is also available provide 100% uptime under all electronic circuitry faults.

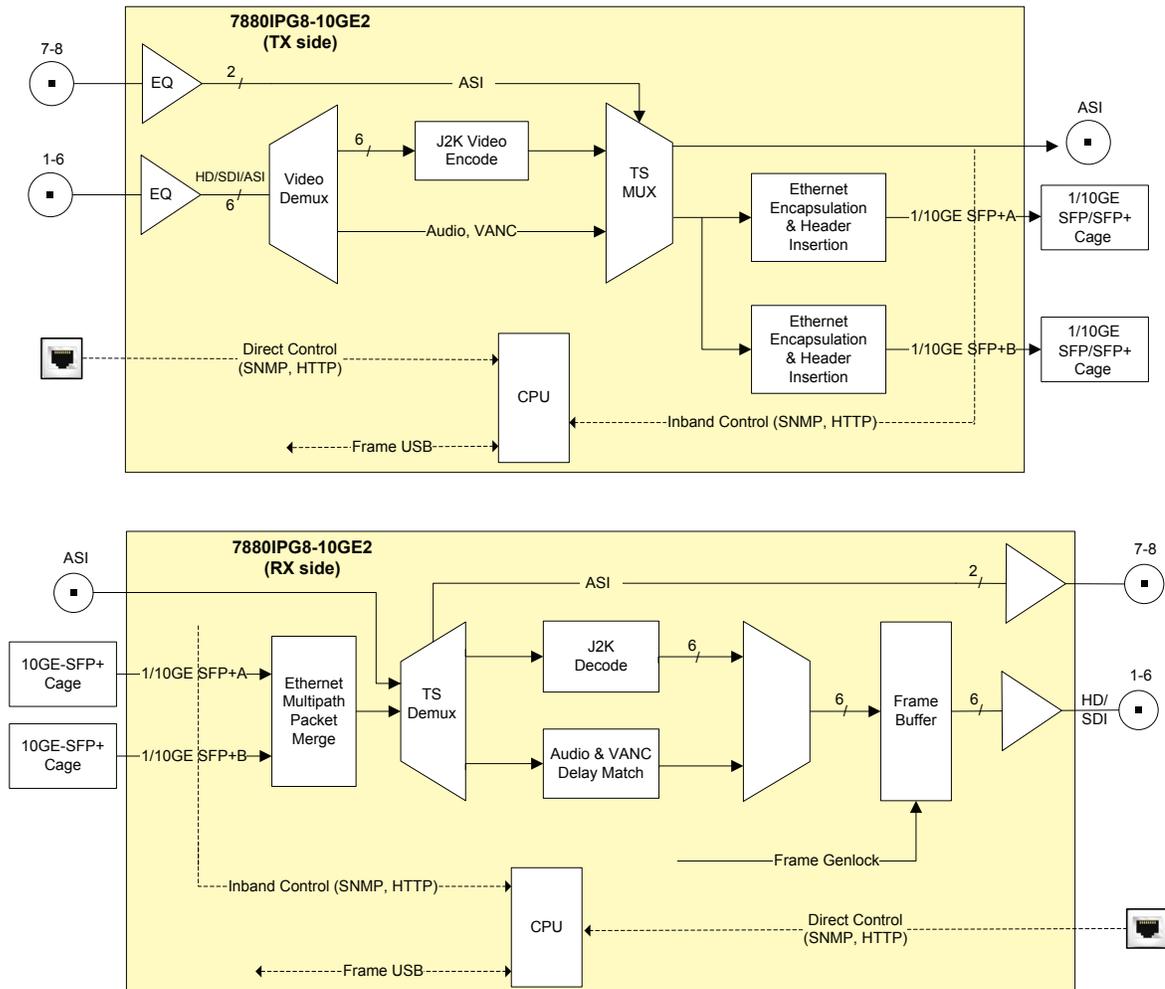
7880IPG8-10GE2 can be managed via Integrated HTTP web interface as well as SNMP management via Frame Controller.

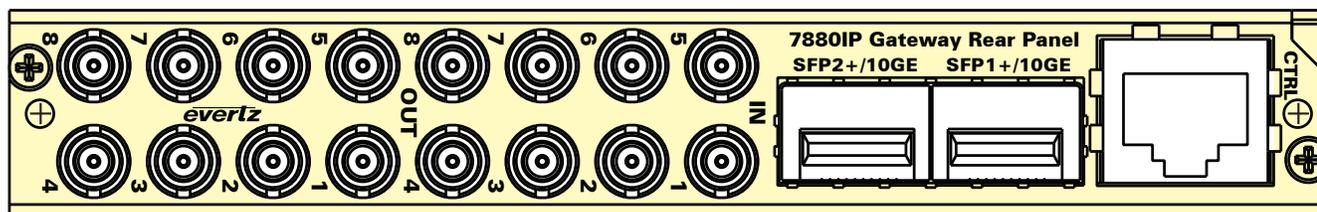
• Timing Management

- 7880IPG8-10GE2 accept streaming UTC via 10GE connection
- Time-stamping of all content output over ethernet (UTC at time of reception)
- Features a frame buffer that can be locked to local genlock or UTC and can be used for output phase alignment and auto timing between baseband and J2K signals

• Control and Baseband Processing

- Modules support control over frame ethernet or inband from 10G interface
- Modules have on board AVM on all baseband signals
- SNMP control from Vistalink or Magnum Unified Control
- REM-RX features re-direction of received J2k signal for NOC monitoring





► Specifications

Serial Digital Video: Standards: SMPTE 424M (3Gb/s), SMPTE 292M (1.5Gb/s), SMPTE 259M (270Mb/s), DVB-ASI	Serial Video Output: Number of Outputs: 8 Connector: DIN Rise and Fall Time: Per SMPTE spec	Embedding of HANC & VANC: 4x Groups Audio Pass through per encoder All type of VANC data pass through
Serial Video Input: Number of Inputs: 8 Connector: DIN Input Equalization: Automatic to 100m @ 3 Gb/s, 150m @ 1.5 Gb/s & 350m @ 270 Mb/s Return Loss: >15dB up to .5 GHz, >10dB up to 3 GHz	Ethernet Interface: Dual 10GE from SFP10G-TR13-A Dual 1GE from SFP1G-TR13 Dual 1GE from SFPTR-RJ45-SGM-AV (User Configurable for 10GE or 1GE)	Electrical: Power: 40W Voltage: 12VDC EMI/RFI: Complies with FCC Part 15, Class AEU EMC directive
	Encapsulation: MPEG2 TS over IP	Physical (number of slots): 2
	Ethernet/IP Signaling: Multicast IGMP V2/V3 (SSM Support)	Enclosures: 7800FR: 3RU chassis 7801FR: 1RU chassis

► Ordering Information

7880IPG8-10GE2 Hybrid Baseband/Ethernet Infrastructure – Media Gateway (Integrated HTTP web interface or requires Frame Controller for SNMP)

Ordering Options:

Processing Modules:

7880IPG8-10GE2: 8x Baseband Input/Output Hybrid Interface processing module (video encapsulation only, no JPEG2000 licenses)

Licensing options:

7880IPG8-CK-J2KE J2K Encode License
7880IPG8-CK-J2KD J2K Decode License

SFP Modules:

SFPTR-RJ45-SGM-AV 1GE electrical SFP
SFP1G-TR13 1GE optical SFP
SFP10G-TR13 10GE optical SFP+

Rear Panel:

RP-7880IPG8-DIN: 7880IPG8-10GE2 Rear panel with 8 DIN Input/Outputs (2 Slots)