

# 3080IPG-ASI16-IPGE, 3080IPG-ASI24-IPGE, 3080IPG-ASI32-IPGE

## Bi-Directional High Density IP Gateway En/De-Capsulator



The 3080IPG-ASI-IPGE platform is a complete hardware based solution to concurrently transport ASI to IP, IP to ASI. It can also regenerate IP from IP input with different settings, such as MAC, IP Unicast/Multicast addressing, add RTP and FEC. The 3080IPG-ASI-IPGE platform is capable of bridging traditional compressed world (ASI) with the emerging video over IP networks.

Controlled by the industry leading VistaLINK® PRO, the 3080IPG-ASI-IPGE is a high density, high performance encap / de-encapsulator. It offers the capability to send and receive 32 ASI signals from a unicast or multicast IP stream. For contribution application, the 3080IPG-ASI-IPGE offers industry leading standard FEC support for encapsulation or de-encapsulation.

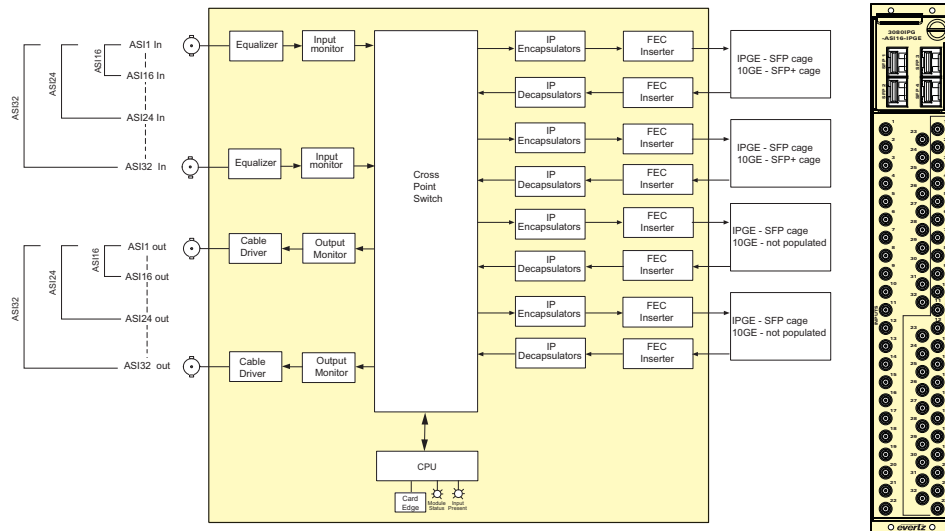
The 3080IPG-ASI-IPGE fits in the Evertz® 3700FR, EMX1-FR and EMX3-FR and EMX6-FR chassis and is SNMP controlled via VistaLINK® PRO. The 3080IPG-ASI-IPGE platform provides ASI inputs and outputs over DIN connectors and network interfaces via SFP RJ45 or SFP Fiber GigE. There are 2 ordering configurations, 4x SFP cages each capable of 1G Ethernet or 2x SFP+ cages each capable of 10G Ethernet.

The 3080IPG-ASI-IPGE platform is available in 3 density variations all offering high density conversions:

3080IPG-ASI16-IPGE, 3080IPG-ASI24-IPGE, 3080IPG-ASI32-IPGE

### Features & Benefits

- 16/ 24/ 32xASI inputs per DVB TR101 891- 213Mbits/s
- 16/ 24 /32xASI outputs per DVB TR101 891- 213Mbits/s
- Internal TSM-Lite for monitoring (ETR-290)
- ASI Input bandwidth management, monitoring (Min and Max Bitrate Threshold)
- GigE bandwidth management
- De-encapsulation of incoming Transport Streams over IP with FEC support to ASI
- Auto fail-over to the redundant incoming Transport Streams over IP
- Encapsulation of outgoing Transport Streams over IP with FEC support from ASI
- Flexible SFP Ethernet I/O for 4x 10/100/1000 or 2x 10GbE I/O (SFP+)



### Specifications

#### Inputs & outputs :

- 32xASI inputs per TR101 891-213Mbits/s
  - Min ASI Bitrate: 100kb/s per input
  - Max ASI Bitrate: 213Mbits/s per input
- 32xASI outputs per TR101 891-213Mbits/s
  - Min ASI Bitrate: 100kb/s per output
  - Max ASI Bitrate: 213Mbits/s per output

#### SFP Modules:

4xSFP Modules: (see ordering information)

Electrical: RJ45 (SFPTR-RJ45-SGM-AV)

Optical:

Connector: Female Duplex LC/UPC (on SFP)

Transmit Wavelengths:

SFP1G-TR13:	1310nm
SFP1G-TR15S:	1550nm
SFP1G-TR15H:	1550nm
SFP1G-TRCxxH:	1470-1610nm
SFP10G-TR13-A:	1310nm
SFP10G-TR15S:	1550nm
SFP10G-TR15H:	1550nm
SFP10G-TRCxxH:	1470-1610nm
SFP10G-TRDxxxH:	D200-D590

Receive Wavelengths: 1270-1610nm

Optical Output Power:

SFP1G-TR13:	-9 to -3dBm
SFP1G-TR15S:	0 to +5dBm
SFP1G-TR15H:	0 to +5dBm
SFP1G-TRCxxH:	0 to +5dBm
SFP10G-TR13-A:	-8 to +0.5dBm
SFP10G-TR15S:	0 to +3dBm
SFP10G-TR15H:	0 to +3dBm
SFP10G-TRCxxH:	0 to +3dBm
SFP10G-TRDxxxH:	-3 to +3dbm

Receive Sensitivity:

SFP1G-TR13:	-23 dBm
SFP1G-TR15S:	-24 dBm
SFP1G-TR15H:	-22 dBm
SFP1G-TRCxxH:	-31 dBm
SFP10-TR13-A:	-14 dBm
SFP10G-TR15S:	-14 dBm
SFP10G-TR15H:	-24 dBm
SFP10G-TRCxxH:	-24 dBm
SFP10G-TRDxxxH:	-24 dBm

Encapsulation parameters:

- IP encapsulation for ASI input:

MAC 802.3>IPV4>RTP>UDP>MPEG (RTP can be turned on and off) Select 1 to 7 MPEG packets per IP frame

- Optional FEC encoding (Pro MPEG forum code of practice #3- release 2-cop3-) with L&D following the following range:
  - L \* D ≤ 100
  - 1 ≤ L ≤ 20
  - 4 ≤ D ≤ 20

- IP address (IP, Subnet mask, Gateway) for the source
- IP address for the destination (Unicast and Multicast)
- Selection of the source port and destination port
- Set Local MAC address of the equipment

De-Encapsulation Parameters:

- Join Multicast by providing correct messaging using IGMP V2, V3
- Selection of the UDP Ports
- Auto fail-over to redundant multicast address

Power Consumption: 95W

Physical (number of slots):

3700FR:	2
EMX1-FR:	2
EMX3-FR:	2
EMX6-FR:	2

### Ordering Information

**3080IPG-ASI16-IPGE** IP En/De-Capsulator with 16 ASI I/O and 4x SFP 1GE  
**3080IPG-ASI24-IPGE** IP En/De-Capsulator with 24 ASI I/O and 4x SFP 1GE  
**3080IPG-ASI32-IPGE** IP En/De-Capsulator with 32 ASI I/O and 4x SFP 1GE

\* Contact factory for 10 GigE availability and for other optical interface options

#### SFP Optical Ordering Options

<b>SFP1G-TR13</b>	SFP Optical Transceiver, 1.25Gbs, 1310nm, SMF, 20km
<b>SFP1G-TR15S</b>	SFP Optical Transceiver, 1.25Gbs, 1550nm, SMF, 40km
<b>SFP1G-TR15H</b>	SFP Optical Transceiver, 1.25Gbs, 1550nm, SMF, 80km
<b>SFPTR-RJ45-SGM-AV</b>	10/100/1000 RJ45 SFP module
<b>SFP10G-TR13-A</b>	SFP+ Optical Transceiver, 10Gbs, 1310nm, SMF, 10Km

**SFP10G-TR15S**  
**SFP10G-TR15H**  
**SFP10G-TRCxxH**

**SFP10G-TRDxxxH**

#### Enclosures

<b>3700FR</b>	3700 Series 6RU frame, includes one 3000PS power supply
<b>EMX1-FR</b>	2 slot 1RU chassis
<b>EMX3-FR</b>	5 slot 3RU chassis
<b>EMX6-FR</b>	15 slot 6RU chassis

The Complete Solution Provider

