



GigaCasterII

TS over IP Gateway

THE GIGACASTER II IS ENENSYS BIDIRECTIONAL TS OVER IP GATEWAY THAT PROVIDES A VERSATILE, EFFICIENT AND RELIABLE SOLUTION FOR DELIVERING DIGITAL TV CONTENT OVER IP NETWORKS.

The ENENSYS **GigaCaster II** TS over IP (TSoIP) gateway is suitable for delivering over IP networks any MPEG content from one point to another point (**contribution**) or from one point to multi-point (**distribution**).

DENSE TSoIP GATEWAY

GigaCaster II is high density TSoIP gateway that can handle the carriage of up to 8 MPEG-2 Transport Streams (MPEG-2 TS) in ASI to IP direction or in IP to ASI direction. Each MPEG-2 TS can include either MPEG-2, MPEG-4 (H.264), HEVC (H.265) video content in SD, HD or UHD format.

IP JITTERING AND PACKET LOSS MANAGEMENT

The **GigaCaster II** is the most efficient TSoIP Gateway to cope with all IP network drawbacks: removing IP network jittering, recovering IP packet loss using FEC ProMPEG CoP#3, substituting bursty packet loss with NULL packets while maintaining an accurate and constant output bit rate and re-ordering IP datagrams.

UNIT AND STREAMS REDUNDANCY SCHEMES

When broadcasting over Single Frequency Network, the **GigaCaster II** implements a patented technology that guarantees a reliable SFN broadcasting with or without external 10MHz reference. It offers various redundancy mechanisms at unit level (**DistriGuard**) and stream level (**Dual IP**) to ensure a safe IP delivery.

APPLICATIONS

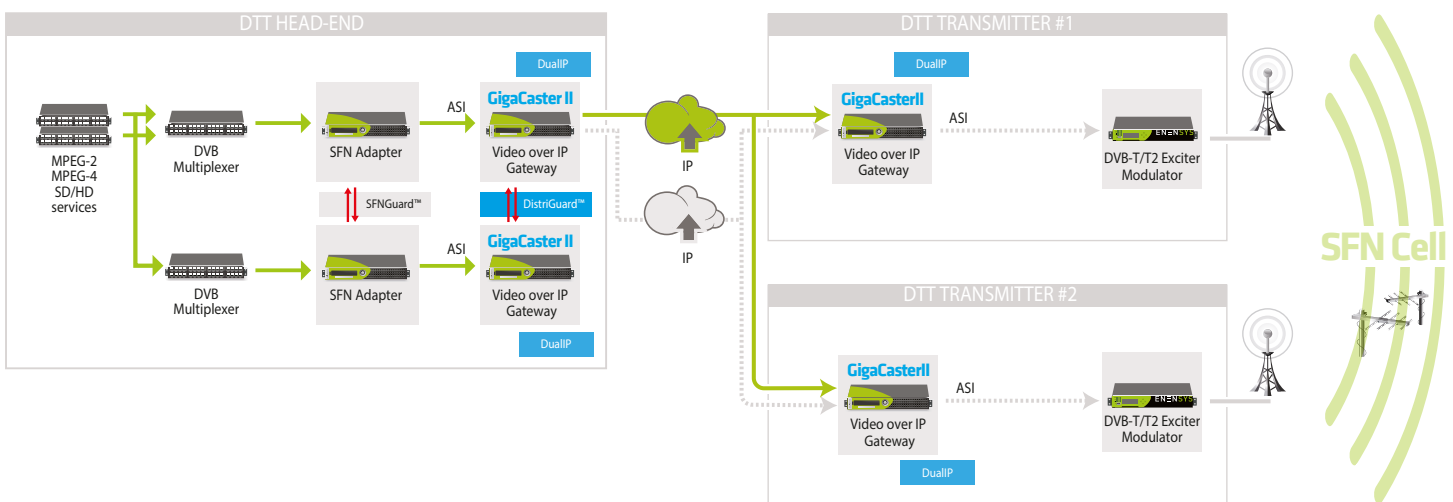
- **ASI to IP** converter and **IP to ASI** converter
- **Contribution**: point-to-point video delivery
- **Distribution**:
 - DTT Transmission sites interconnections
 - Reliable SFN broadcasting over IP
 - Radio Link sites interconnections

BENEFITS

- **Versatile** : ASI>IP or IP>ASI per TS
- **Multi-standard**: ATSC, DVB, ISDB
- **Video agnostic**: MPEG-2, MPEG-4, HEVC
- **Scalable** : From 1 TS up to 8 TS
- Unique patented **SFN preservation**
- **Reliable** : Redundancy at stream and unit levels

CHARACTERISTICS

- Up to 8 DVB-ASI ports
- 1+1 unit redundancy with **DistriGuard** option
- RTP / UDP support
- Unicast, Multi-Unicast and Multicast support
- Bidirectional ASI or IP delivery in the same unit
- 1+1 stream redundancy with **Dual IP** option
- Pro MPEG Forum CoP#3 / SMPTE 2022
- Burst of packet loss recovery mechanism
- Network jitter removal
- Real-time monitoring
- Full SNMP v2 support



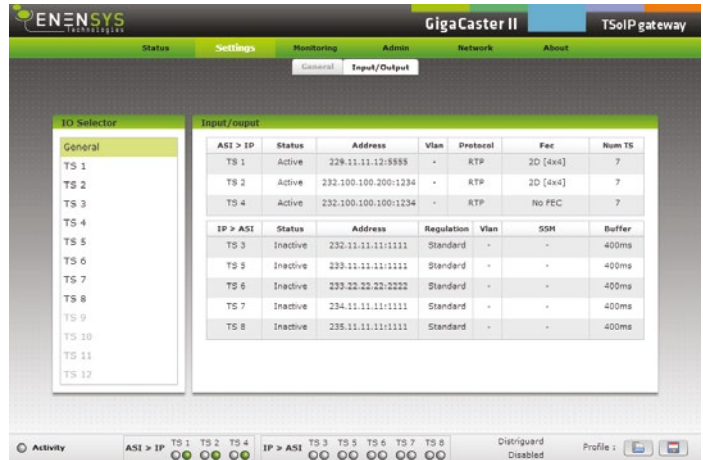


INPUTS/OUTPUTS

Control	2x Gigabit Ethernet (RJ45) for GUI/SNMP
ASI	MPEG-2 Transport Stream over ASI Up to 8 bidirectional DVB-ASI (BNC) Up to 100 Mb/s per TS Up to 400 Mb/s over all TS with FEC
IP	MPEG-2 Transport Stream over IP 2x Gigabit Ethernet (R) 45) 2x Optional SFP port 600 Mb/s maximum throughput RTP or UDP datagrams
GPS	1x 10 Mhz input for accurate bit rate

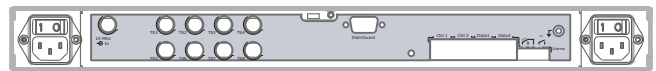
FEATURING

IP encapsulation	DVB-IPI - SMPTE 2022 compliant From 1 to 7 TS packets/IP packet
IP management	Unicast, Multi-Unicast and Multicast VLANs Management IGMP v2/V3 support
Packet loss recovery	Packet loss correction based on: - FEC Pro MPEG CoP#3 - RTP recovery for bursty loss
Jitter removal	Configurable buffer (10 - 900ms) to absorb network jittering
Single Frequency Network	Accurate bit rate adaptation with or without 10MHz external input
Redundancy	1+1 unit redundancy in ASI>IP (DistriGuard option) 1+1 streams redundancy (DualIP option)
Control and Supervision	Easy-to-use Web based GUI In-band control possible Full SNMP v2 support



PHYSICAL

Height	44 mm / 1.7 in.
Width	444 mm / 17.48 in.
Depth	274 mm / 10.79 in.
Format	1 RU, width 19"
Front Panel	LCD display for control & monitoring
Power supply	100-240VAC/48V DC (option)
Power consumption	20W



ORDERING CODES

- GigaCasterII-ASI1** TS over IP Gateway - 1 ASI port enabled
- GigaCasterII-ASI4** TS over IP Gateway - 4 ASI ports enabled
- GigaCasterII-ASI8** TS over IP Gateway - 8 ASI ports enabled

Options

DualIP	1+1 streams redundancy
NN6-SFP	2x additional SFP ports
NN6-ASI1-4	Upgrade from 1 TS to 4 TS
NN6-In48V	48 V input instead of 110V/220V
NN6-In220VRedundant	110V/220V redundant power supply
NN6-In48VRedundant	48V DC redundant power supply

