

GigaCaster

Video over IP Gateway



GigaCaster video gateways provide a cost effective, versatile and efficient solution for delivering digital TV content over IP networks.

ENENSYS' video over IP 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).

GigaCaster high density video gateways 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 or MPEG-4 (H264) video content in SD or HD format.**

When broadcasting over **Single Frequency Network**, ENENSYS has implemented a patented technology that copes with any IP network issues and guarantees a reliable SFN broadcasting without external 10MHz reference.

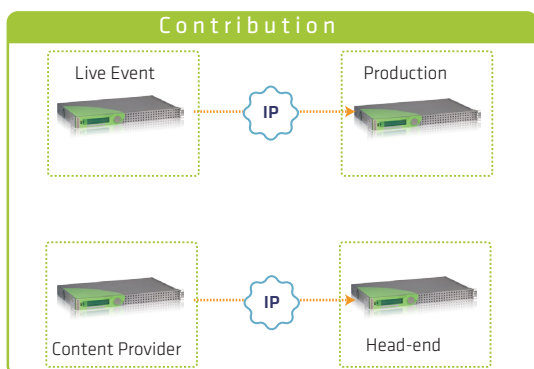
Applications

Benefits

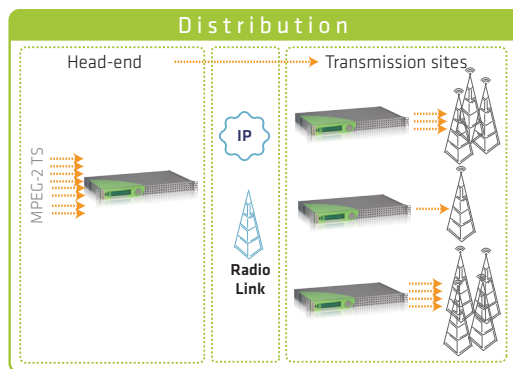
- **Front panel** : Ease operation and maintenance
- **Versatile** : ASI>IP or IP>ASI
- **Multi-standard** : ATSC, DVB-T/H, ISDB-T
- **Video agnostic** : MPEG-2 or MPEG-4/H.264
- **Scalable** : From 1 ASI port up to 8 ASI ports
- Unique patented **SFN preservation**
- **High throughput** : Up to 100Mb/s per ASI
- **Reliable** : Hardware based for 24/7 operation

Characteristics

- Up to 8 DVB-ASI ports
- Gigabit ethernet port for IP distribution
- Optional SFP port for Fiber optic distribution
- RTP / UDP support
- Unicast and multicast support
- DVB-IPI FEC compliant
- Pro MPEG Forum CoP#3 / SMPTE 2022
- Clock & drift correction
- Network jitter removal
- IGMP v2/v3 support
- Full SNMP v2 support
- Real-time monitoring
- Fault relay alarm



- Point-to-point video delivery
- Deliver any MPEG content from satellite, cable source



- Transmission sites interconnections
- Reliable SFN broadcasting over IP
- Radio Link sites interconnections

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Inputs/Outputs

ASI MPEG-2 Transport Stream over ASI
Up to 8 DVB-ASI (BNC 75Ω)
Up to 100 Mb/s per ASI input/output
Up to 400 Mb/s over all ASI with FEC

IP MPEG-2TS over IP
1 Gigabit Ethernet (RJ 45) - optional SFP
600 Mb/s maximum throughput
RTP or UDP datagrams

Processing

IP encapsulation DVB-IP1 compliant
From 1 to 7 TS packets/IP packet

IP management Unicast and Multicast
VLANs Management
IGMP v2/V3 support

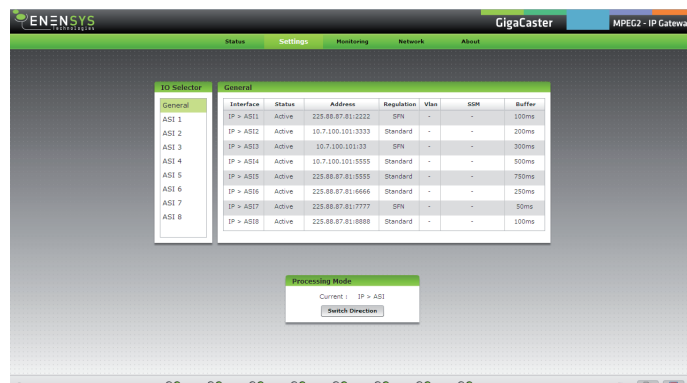
FEC Packet Loss correction based on
Pro MPEG CoP3 - SMPTE 2022

Jitter removal Patented technology
Configurable buffer (10 - 900ms) to
absorb network jittering

Single Frequency Regulation based on MIP packet
Network Optional external 10MHz

Quality of Service Traffic Policy definition
TOS/DSCP specification

Control and Supervision Easy-to-use Web based GUI
In-band control possible



Physical

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



Ordering Information

GigaCaster-ASI1 1 ASI port enabled
GigaCaster-ASI2 2 ASI ports enabled
GigaCaster-ASI4 4 ASI ports enabled
GigaCaster-ASI8 8 ASI ports enabled

Options

- NN6_IPD_SFN Unique SFN preservation
- NN6_DualPower Redundant power supply
- NN6_IN48V 48V DC power supply

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