

ASIGuard

Advanced ASI switch

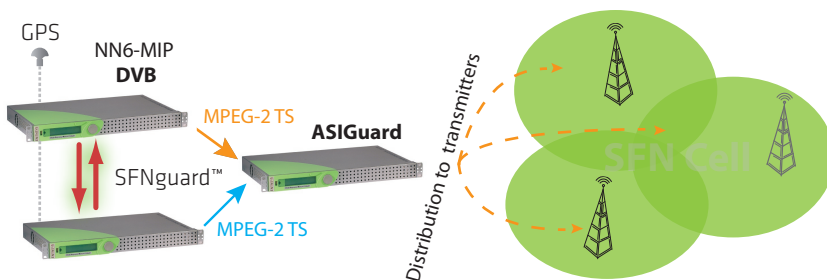


ASIGuard is ENENSYS cost-effective ASI switch that enables 1+1 redundancy mechanism of head-end equipments.

ASIGuard performs ASI switch between two MPEG-2 Transport Streams according to the validity of the incoming streams. Upon ETR290 errors or ASI signal problems, ASIGuard switches from the faulty input to the valid one and outputs the latter.

ASIGuard is focused on robustness and high availability by offering redundant ASI outputs, seamless ASI switch, redundant power supplies, two ASI monitoring outputs and passthru mechanisms.

In Single Frequency Networks, a single de-synchronization or wrong SFN signaling can disturb transmission and cause a complete TV black-out. To prevent any SFN error, **NN6-MIP DVB** provides 1+1 redundancy mechanism through its patented technology **SFNguard**. Combined with **ASIGuard**, ENENSYS solution enables SFN seamless switch-over.



Applications

- SFN Adapters redundancy
- 1+1 redundancy of head-end equipments for
 - DVB-T Broadcast
 - DVB-H Mobile Tv Broadcast
 - DVB broadcasting

Benefits

- Avoid TV black-out in SFN
- Seamless switch-over with delayed source
- Versatile solution for DVB head-ends
- Maintain service continuity
- High-grade broadcast product
- Low power consumption (< 20W)
- Easy integration into any NMS

Characteristics

- ASI switch between 2 MPEG-2 TS
- 1+1 redundancy for Head-end components
- Several switching modes
- Flexible switching condition configuration
- Passive and Advanced Passthru mechanisms
- Mirrored ASI outputs
- Real-time monitoring of incoming streams
- Easy to use web-based GUI
- Full SNMP v2 support

Options

- NN6-DualPower : redundant power supply
- In48V : 48V DC input voltage

ASIGuard

Advanced ASI switch

Input Interface

MPEG2-TS	2x ASI inputs
Control	10/100 Base-T for standard web based interface

Output Interface

MPEG2-TS	2x Mirrored ASI outputs 2x Gigabit Ethernet ports - for future use Packet/Burst mode
Availability	Basic passthru replicating the inputs Advanced passthru maintaining the last selected switch
Monitoring	2x Monitoring ASI outputs to monitor incoming streams

Processing

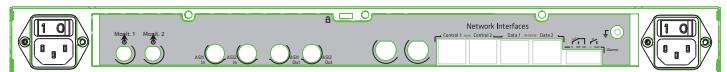
Inputs resynchronization	Correlates the stream stemming from different network with different delays to output one single MPEG-2 TS
SFN preservation	Enables seamless switch in case one distribution fails while maintaining SFN synchronization
Switching modes	Automatic switch from one input to the other one upon failure Automatic switch with priority on inputs Manual switch
Switch conditions	ASI sync loss ETR290 alarms (TS sync loss, PAT error, PCR error, continuity counter,...)
Monitoring	Real-time monitoring of incoming streams, Web-based GUI
Supervision	Full SNMP v2 support Easy integration into NMS

Alarms

MPEG-2 TS	ASI Sync missing ETR 290 errors
SNMP	Any alarm can be configured as a trap and/or trigger relay out

Physical

Height	43 mm / 1.7 in.
Width	220 mm / 8.7 in.
Depth	263 mm / 10.4 in.
Format	1 RU, 1/2 width 19"
Power supply	100-240V AC 48 V DC (option)
Power consumption	20W



ENENSYS Technologies
 Le Germanium
 80 avenue des Buttes de Coesmes
 35700 Rennes
 FRANCE
 Office (+33) 1 70 72 51 70
 Fax (+33) 2 99 36 03 84
contact@enensys.com