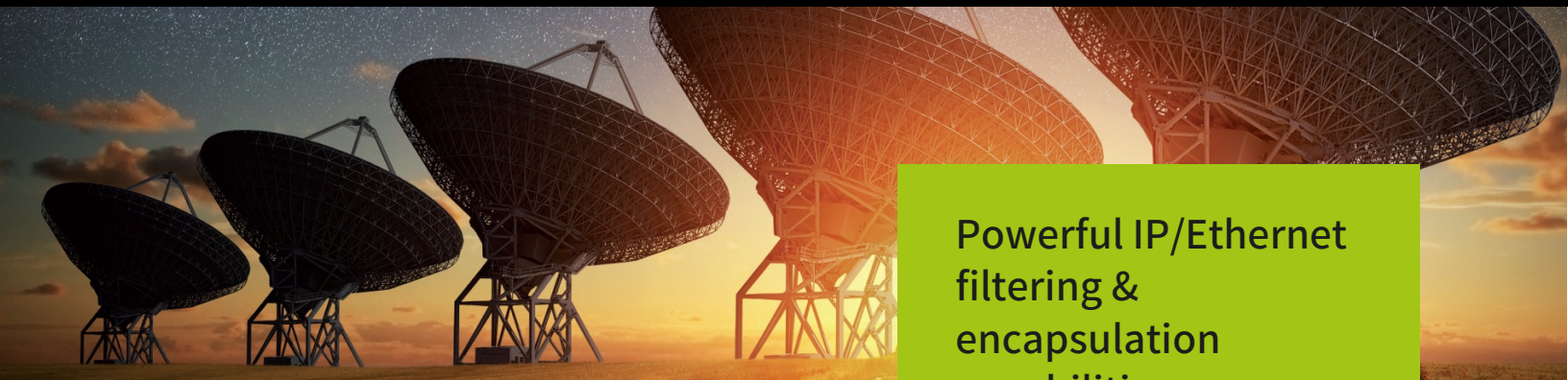


SmartGate S2/S2X IP/Ethernet Satellite Gateway



Powerful IP/Ethernet filtering & encapsulation capabilities combined with an advanced high quality modulator for optimized IP applications over satellite.



SmartGate S2/S2X is the ideal solution to manage IP transmissions over Satellite. The SmartGate powerful IP/Ethernet filtering allows you to select any type of service, performs the IP datagram encapsulation according MPE or GSE standards by hardware for ultra low latency and transmits according to DVB-S2 or DVB-S2X standards. Its Multiqueuing ACM process allow you to manage QoE per service.

IP/Ethernet Input Management

SmartGate handles enhanced filtering & QoS through its 1 GigE and 10 GigE ports. The product offers two different types of encapsulation: GSE – with optimized process, and MPE – which guarantees compatibility with existing receivers.

Full Implementation of DVB-S2 & S2X Standards

SmartGate integrates the latest FPGA technology required to perform high-quality modulation based on the DVB-S2 and DVB-S2X standards. It offers VCM/ACM multiqueuing, low roll-off and VL-SNR modes.

Crystal Spectrum

SmartGate covers the full L-Band spectrum range (950/2150 MHz) with a SR from 0.05 to 120 MSymbol/s and roll-off factor from 5 to 35% with a very high SNR value.

Easy Integration in Existing VSAT Systems

With its standard interfaces, SmartGate can be fully controlled remotely by its GUI or SNMP for an easy and quick integration into any systems.

Applications

- IP Backhauling
- OTT Contribution / Broadcasting
- IoT (Internet-of-Things) Connectivity
- VSAT systems

Other benefits

- MPE & GSE
- IP Level 2 & 3
- Ultra low latency
- Multiqueuing ACM

SmartGate S2/S2X IP/Ethernet Satellite Gateway

Technical specifications

DATA I/O

Ethernet Port

- 4 Ethernet ports 1 GigE - RJ45
- 2 Ethernet ports 10 GigE - RJ45 or SFP+

ASI Interface

- 8 ASI Inputs - BNC - 75 Ω
- 1 ASI Output - BNC - 75 Ω

DATA PROCESSING

MPE Encapsulation

- Up to 4000 independent components (PID)
- L2 or L3 Multiprotocol encapsulation (DSM-CC)
- Standard & QinQ VLAN support
- MAC mapping
- Section packing
- Traffic Management (shaping, policing, priority)
- Program Clock Reference (PCR) Insertion

GSE Encapsulation

- Standard ETSI TS 102 606-1
- Up to 16000 routes
- Network Clock Reference (NCR) Insertion
- MAC mapping

Modulation

- DVB-S2 & DVB-S2X:
- BCH / LDPC (all code rates)
- Constellations: QPSK, 8PSK, 16APSK to 256APSK
- Operating modes: CCM, VCM & ACM
- Frame length: Short & Normal

Carrier

- Symbol rate: 0.05 to 120 MSymbol/s
- Standard and custom roll-off from 5 to 35 %
- PL Scrambling codes
- Pilots insertion

DVB Carrier ID

- Compliant to ETSI TS 103 129 Standard

RF OUTPUTS

L-Band Main Output

- L-Band: 950 MHz to 2150 MHz,
- +7 dBm to -35 dBm / N 50 Ω ,
- 10MHz reference insertion

L-Band Monitoring Output

- Copy of L-Band Main Output
- 20 dB below / SMA 50 Ω

CONTROL & MANAGEMENT

Web UI

- HTML5 Technology
- Live statistics & monitoring

SNMP

- SNMP v2 support
- TRAP & INFORM notifications

Front Panel

- Full control & monitoring

Serial link

- RS232 / DB9 Connector

PHYSICAL

Height x Width x Depth

- 44 mm / 1.7 in. x 483 mm / 19 in. x 376 mm / 14.8 in.

Format - Weight

- 1RU, 19" width - 8 kgs

Power Supply - Power Consumption

- 100/240 VAC - 100 W

SmartGate S2/S2X IP/Ethernet Satellite Gateway

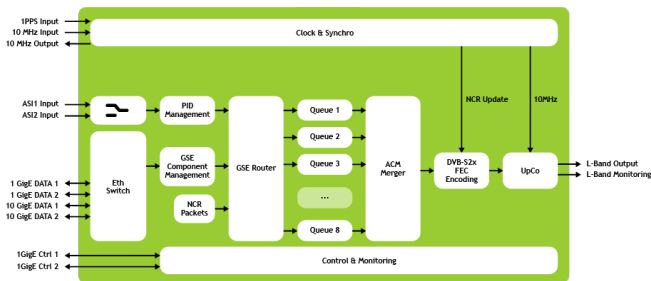
Front



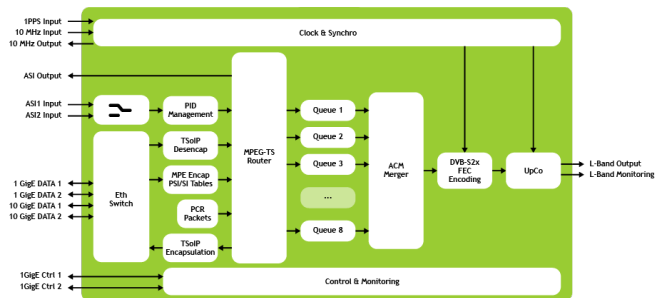
Back



SmartGate GSE



SmartGate MPE



Ordering codes

XSSR-SGT0-3000

SmartGate: IP S2/S2X Satellite Gateway - MPE - GSE - QPSK/64APSK - L Band - 72 Mbaud

Ordering options

XSSO-SGT0-256A

256APSK constellations

XSSO-SGT0-LSNR

VL-SNR modes

XSSO-SGT0-120M

Symbol Rate < 120 MBauds