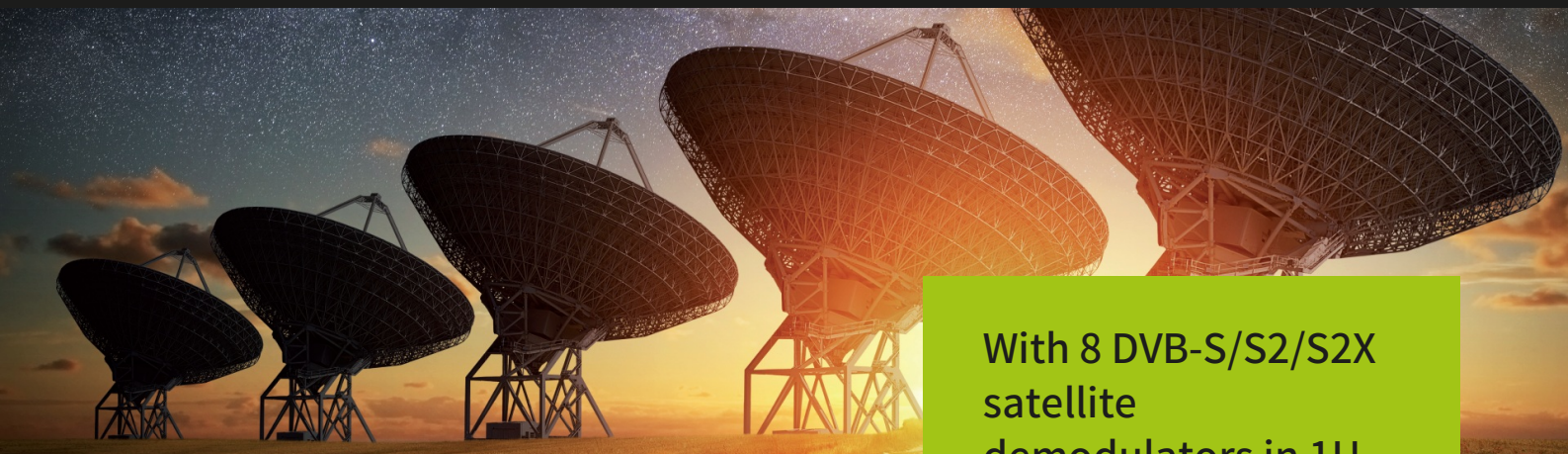


Neptune DualRF

Satellite Demodulator



With 8 DVB-S/S2/S2X satellite demodulators in 1U, Neptune is the most compact, powerful, up-to-date and flexible solution with very high RF performance.

Neptune is an up to date demodulator designed to build efficient audio and/or TV satellite distribution systems to terrestrial towers compliant with SFN requirements: its performances improve your budget link to increase capacity. Furthermore, its multistream feature associated with MPE/GSE allows you to combine Audio, Video, and IP distribution on the same carrier to reduce CAPEX.

DVB-S, DVB-S2 & S2X Standards

Neptune performs high quality demodulation based on the DVB-S, DVB-S2 and DVB-S2X standards up to 256APSK and manages bit rate up to 250 Mbits/s.

BISS-CA

With two decrambler bblocks fully compliant with BISS version 1 & BISS version 2 standards, protect your satellite transmissions with most powerful and flexible solution on the market against hacking.

Multistream / TS / IP-MPE / IP-GSE

Neptune manages up to 8 ISI in parallel containing TS formats, MPE de-encapsulation, GSE de-encapsulation for TV and IP traffic.

Density & Flexibility with High Performance

With Neptune very low implementation loss you can reach the DVB theoretical limits to improve your capacity. Two RF inputs, and demodulation of 8 satellite carriers at the same time, Neptune 1U Rack is equivalent to 8 satellite receivers.

Applications

- DSNG – Contribution
- TV Distribution To Tower
- Audio (DAB/FM) Distribution To Tower
- OTT Contribution
- IP Backhauling

Other benefits

- Multi-demodulator
- RF Input Redundancy
- Internal RF distribution
- Simplified Cabling
- BISS-CA compliant

Neptune DualRF

Satellite Demodulator

Technical specifications

RF INTERFACE

2 L-Band Inputs

- 950 MHz to 2150 MHz
- F Connector - 75 Ω
- LNB DiSEqC Control

1 L-Band output

- Copy of RF Input selected
- F Connector / 75 Ω

DATA PROCESSING

MPEG-TS Formats

- DVB MPEG-TS over ASI: EN50083-9, ETSI TR 101 891
- DVB MPEG-TS over IP: ETSI TR 102 034
- MPEG-2 PSI Tables (PAT and PMT): EN 300 468

MPE Deencapsulation

- MPE supported as described in the ETSI EN 301 192 standard

DVB-S, DVB-S2 & S2X Demodulation

- Symbol rate: 0.5 to 250 MSymbol/s
- Roll-off factor from 5 to 35 %
- BCH / LDPC (all code rates)
- QPSK, 8PSK, 16APSK to 256APSK
- Modes: CCM, VCM & ACM
- Frame length: Short & Normal frames
- Channel bitrate up to 250Mbit/s

GSE Deencapsulation

- GSE-Lite profiles according to the annex D of the ETSI TS 102 606-1 standard
- GSE-HEM supported as described in the EN 302 307 part 2 standard

BBFrame

- BaseBand Frames Out over IP (Jumbo Frame)

Other features

- Two BISS-CA Descrambler
- Single stream / Multistream up to 8 ISI
- RF input switching
- Time Slicing (DVB-S2X Annex M)
- BISS mode 0/ 1/E & PL Scrambling codes
- Automatic parameters detection
- IP, RTP

DATA I/O

Ethernet Port

- 4 Ethernet ports 1 GigE - RJ45

ASI Interfaces

- 8 ASI outputs
- 2 ASI inputs

CONTROL & MANAGEMENT

Web UX/UI

- HTML5 Technology
- Live statistics & monitoring

Front Panel

- Easy to use
- Full control & monitoring

SNMP

- SNMP v2 support
- TRAP & INFORM mechanism

Serial Link

- RS232 / DB9 connector
- Full control & monitoring

PHYSICAL

Height x Width x Depth

44 mm / 1.7 in. x 483 mm / 19 in. x 250 mm / 9.8 in.

Format - Weight

1RU, 19" width - 2.5 kgs

Power Supply - Power Consumption

90-240VAC - 35 W / 90 W with 2 LNB

MTBF

80000 hours

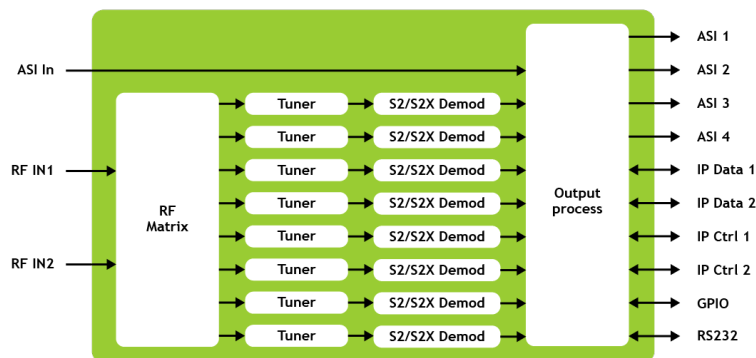
Neptune DualRF

Satellite Demodulator

Front



Back



Neptune DualRF

Satellite Demodulator

Ordering codes

xSSR-NEP0-3000

DVB-S/S2/S2X Satellite Demodulator:

- 2 x RF L-Band inputs (950/2150 MHz)
- 4 x ASI outputs / 4 x 1 Gb Ethernet ports
- 36 MSymbol/s - QPSK to 32APSK
- Single stream / Multistream
- TS / IP-MPE / IP-GSE
- 1U Rack / Single PSU

xSSR-NEP0-3010

DVB-S/S2/S2X Satellite Demodulator:

- 2 x RF L-Band inputs (950/2150 MHz)
- 8 x ASI outputs / 4 x 1 Gb Ethernet ports
- 36 MSymbol/s - QPSK to 32APSK
- Single stream / Multistream
- TS / IP-MPE / IP-GSE
- 1U Rack / Single PSU

xSSR-NEP0-3001

DVB-S/S2/S2X Satellite Demodulator:

- 2 x RF L-Band inputs (950/2150 MHz)
- 4 x ASI outputs / 4 x 1 Gb Ethernet ports
- 36 MSymbol/s - QPSK to 32APSK
- Single stream / Multistream
- TS / IP-MPE / IP-GSE
- 1U Rack / Dual PSU

xSSR-NEP0-3011

DVB-S/S2/S2X Satellite Demodulator:

- 2 x RF L-Band inputs (950/2150 MHz)
- 8 x ASI outputs / 4 x 1 Gb Ethernet ports
- 36 MSymbol/s - QPSK to 32APSK
- Single stream / Multistream
- TS / IP-MPE / IP-GSE
- 1U Rack / Dual PSU

Ordering options

xSSO-NEP0-256AM

DVB-S2/S2X modcods up to 256APSK

xSSO-NEP0-BISE

BISS Version 1 - Mode 0/1/E de-scrambling license

xSSO-NEP0-BBFR

BaseBand Frame over IP output (Jumbo Frame)

xSSO-NEP0-72MB

Symbol Rate up to 72 MSymbol/s

xSSO-NEP0-BISA

BISS Version 2 - Mode 0/1/E/CA de-scrambling license

xSSO-NEP0-250M

Symbol Rate up 250 MSymbol/s with DVB-S2X Annex M Time Slicing