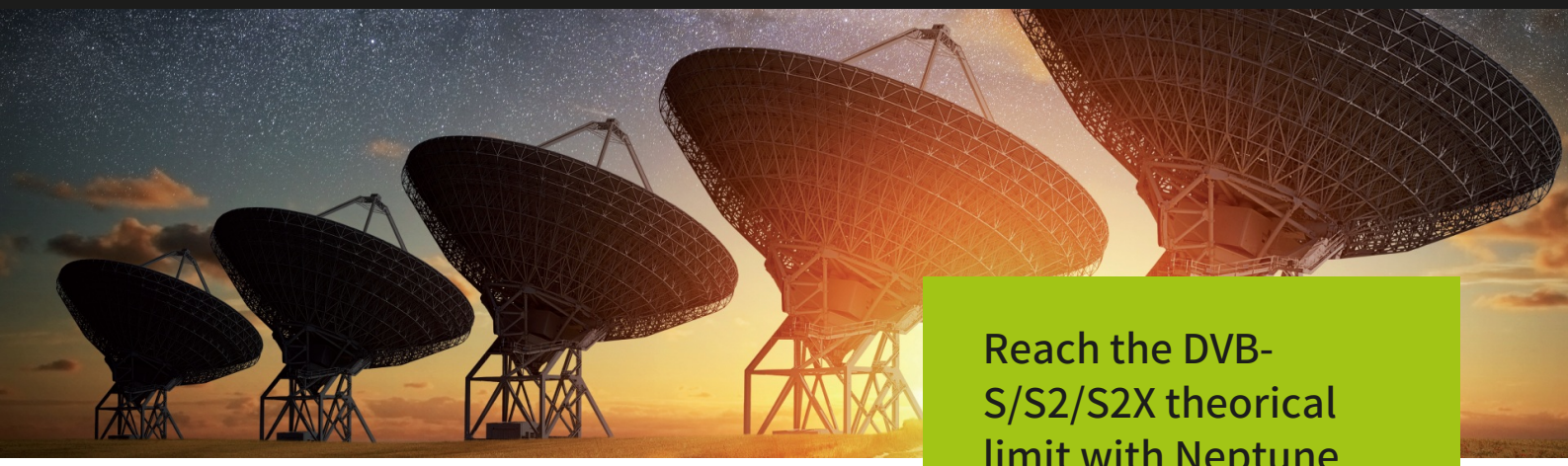
# Neptune SingleRF

## Satellite Demodulator



**Reach the DVB-S/S2/S2X theorical limit with Neptune MonoChannel satellite demodulator and improve your QOS with its very high sensitivity**

**Neptune Monochannel is a powerful, up-to-date and cost-effective DVB-S/S2/S2X satellite demodulator with very high RF performance to build efficient audio and/or TV satellite distribution systems to terrestrial towers. Compliant with SFN requirements, its performances improve your budget link and increase capacity.**

### DVB-S, DVB-S2 & S2X Standards

Neptune Monochannel 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.

### Single stream / Multistream Demodulation

Neptune MonoChanel is able to extract up to 8 ISI in parallel with a streamlined process which respects ETR-290 requirements.

### TS / IP-MPE / IP-GSE

Neptune MonoChannel simultaneously manages TS Formats, MPE De-encapsulation, GSE De-encapsulation for TV, Radio and IP Traffic.

### High Performance

With Neptune MonoChannel RF quality and its very low implementation loss you can reach DVB Theoretical limits and improve your capacity.

## Applications

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

## Other benefits

- Mix of MPE / GSE / TS
- CCM / VCM / ACM
- High Data rate
- Cost Effective

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# Neptune SingleRF

## Satellite Demodulator

## Technical specifications

### RF INTERFACE

**1 L-Band Input**
- 950 MHz to 2150 MHz
- F Connector - 75 Ω
- LNB DiSEqC Control

**1 L-Band Output**
- Copy of RF Input
- F Connector - 75 Ω

### DATA PROCESSING

**MPEG-TS Formats**
- DVB MPEG-TS over IP: ETSI TR 102 034
- MPEG-2 PSI Tables (PAT and PMT): EN 300 468

**GSE Deencapsulation**
- GSE according to the ETSI TS 102 606-1 standard
- 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

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

**BBFrame**
- BaseBand Frames Out over IP (Jumbo Frame).

**DVB-S, DVB-S2 & S2X Demodulation**
- Symbol rate: 0.5 to 250 MSymbol/s
- Roll-Off factor from 5 to 35%
- QPSK, 8PSK, 16APSK to 256APSK
- Modes: CCM, VCM, ACM
- Frame length: Short & Normal
- Channel bit rate up to 250 Mbits/s

**Other features**
- Single stream / Multistream
- Time Slicing (DVB-S2X Annex M)
- BISS mode 0/1/E & PL Scrambling
- Automatic parameters detection
- IP, RTP

### DATA I/O

**Ethernet Port**
- 2 Ethernet ports 1 GigE - RJ45

### CONTROL & MANAGEMENT

**Web UX/UI**
- HTML5 Technology
- Live statistics & monitoring

**SNMP**
- SNMP v2 support
- TRAP & INFORM mechanism

**Front Panel**
- Easy to use
- Full control & monitoring

**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 in. width - 2.5 kgs

**Power Supply - Power Consumption**
90-240 VAC - 25 W / 40 W with LNB

**MTBF**
80000 hours

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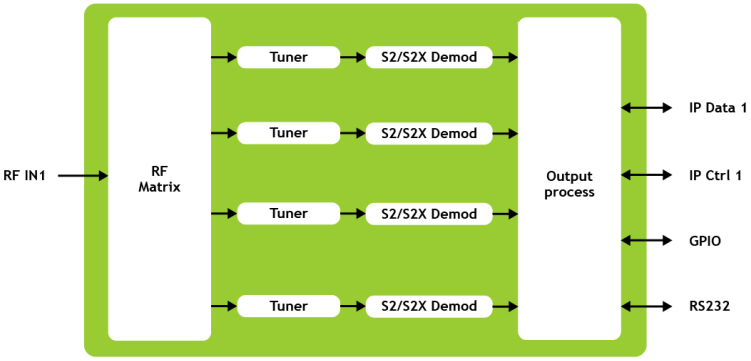
# Neptune SingleRF

## Satellite Demodulator

### Front


### Back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# Neptune SingleRF

## Satellite Demodulator

## Ordering codes

**xSSR-NEP0-2000**

S/S2/S2X Satellite Demodulator:
- 1U Rack / Single PSU
- 1 x RF L-Band inputs (950/2150 MHz)
- 2x 1 Gb Ethernet ports
- 36 MSymbol/s - QPSK to 32APSK
- Single stream / Multistream
- TS / IP-MPE / IP-GSE

## Ordering options

**xSSO-NEP2-256AM**

DVB-S2/S2X modcods up to 256APSK

**xSSO-NEP2-250M**

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

**xSSO-NEP2-72MB**

Symbol Rate up to 72 MSymbol/s

**xSSO-NEP2-BBFR**

BaseBand Frame over IP output (Jumbo Frame)

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