

Neptune SingleRF Satellite Demodulator



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



TeamCast 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

TeamCast 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

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

TS / IP-MPE / IP-GSE

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

High Performance

With TeamCast 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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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

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%
- QPSK, 8PSK, 16APSK to 256APSK
- Modes: CCM, VCM, ACM
- Frame length: Short & Normal
- Channel bit rate up to 250 Mbits/s

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

BBFrame

- BaseBand Frames Out over IP (Jumbo Frame).

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

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.

Power Supply - Power Consumption

90-240 VAC - 25 W / 40 W with LNB

Format - Weight

1RU, 19 in. width - 2.5 kgs

MTBF

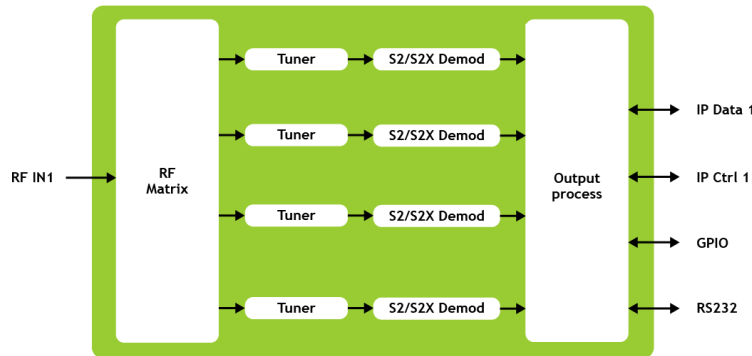
80000 hours

Neptune SingleRF Satellite Demodulator

Front



Back



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)