

APPLICATIONS

- IPTV content aggregation (head end) and/or delivery
- Hotel or cruise ship infotainment
- Cable network head-ends
- Digital cinema
- Business television
- Distance education
- Digital signage
- Corporate LANs

FEATURES

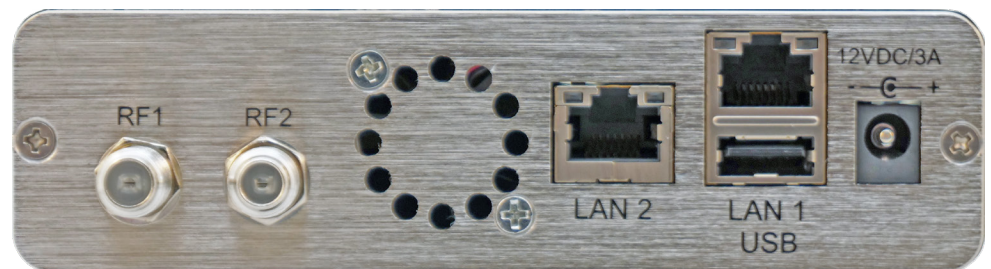
- DVB-S/DVB-S2 compliant
- Up to 100 Mb/s sustained throughput
- Two RJ45 Ethernet interfaces
- Dual tuner or dual stream reception
- Over-the-air configuration and firmware updates
- SNMP support for enterprise network management
- IPTV forwarding on multicast (SPTS/MPTS)
- 64 services of 8 PIDs
- SNMP Traps & SNMP v2c for monitoring
- Decryption options including BISS, and optional Single Common Interface (CI) slot
- USB interface for expanded storage, return channel options or wifi support
- MicroSD slot for expanded memory
- 2 x 16 LCD display with configurable status reporting
- Secure Linux OS with flexible application integration options

S400 PRO

DVB-S2 IP Receiver/Router

Novra's latest **S400 PRO** DVB-S/S2 satellite data receiver. It incorporates new functionality, additional interfaces and 2 transponder capability plus an LCD front panel display.

Enhanced capabilities of the **S400 PRO** family include increased throughput (up to 100 Mb/s), added MPE, ULE, and GSE support for efficient data and stream delivery, on-board storage useful for data applications, additional interfaces for dedicated secure receiver management and simplified integration with other peripherals and systems, and an architecture specifically designed to enable factory customization for specialized applications. The **S400 PRO** is ideally suited for a range of applications that require a full-featured, flexible, easily integrated satellite receiver.



AVAILABLE MODELS

S400 PRO as shown

S400 PRO with single Common Interface Slot

Compatible with

- GOES Rebroadcast (GRB), CADU, and Baseband Frames
- EUMETSAT
- AWIPS
- NOAAPort
- GK-2A (Korea)

TECHNICAL

Features

- DVB-S/DVB-S2 Compliant
- Single & Dual tuner version
- Full Transponder Program Listing
- Selectable SI Table PID pass-through
- Single Program PAT Re-generation
- VCM
- Multi-transport stream support with ISI filtering support
- Delivery of IP SPTS/MPTS or MPEG Services
- CI Slot for CAM and Smart Card option

DVB-S

- Viterbi 1/2, 2/3, 3/4, 5/6, 6/7, 7/8 puncture rates
- Reed Solomon 16 bit decoder

DVB-S2

- LDPC 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 rates
- BCH (Bose-Chaudhuri-Hocquenghem) decoder
- Receiving Frequency: 950 to 2150 MHz
- Frequency Acquisition: ± 10 MHz above 10 MBaud
- Input Signal Level: -65 dBm to -25 dBm
- Multi-standard Demodulation
 - QPSK: 100 kBaud to 67.5 MBaud
 - 8PSK: 100 kBaud to 63 MBaud
 - 16 APSK: 100 kBaud to 47 MBaud
 - 32 APSK: 100 kBaud to 38 MBaud
- Automatic Symbol Rate detection and lock
- Automatic Code Rate detection and lock
- Data Throughput: 100 Mb/s
- Nyquist Root Filter: 0.2, 0.25, 0.35 rolloff
- Multi-stream VCM

Gold Code

- 0 to 262143 Sequence Selection

LNB Power and Control

- LNB Supply Voltage: 13/18V or off
- LNB Supply with long line compensation +1 volt
- LNB Control: 22 kHz or off

Configuration

- Web based configuration and management
- Over the air configuration and firmware update
- OTA and scheduled record content

Status Monitoring

- Signal Strength
- Signal Lock, Data Lock
- Error status: C/N, Uncorrectable packets
- Frequency error
- DVB PID counters

Status Indicators

- Power: Green LED
- Lock/Data: Green LED
- Ethernet Link (green) and Transmit (yellow)

Hardware Capabilities

- Encapsulation MPE, ULE, GSE
- PID Filters
- Simultaneous MPEG Programs: 64
- Internal Hardware Watchdog
- Non-Volatile Configuration Storage
- Field upgradable operating system for new s/w releases and functional upgrades

Physical Interfaces

- Two L-band Input Connectors: F-Type, 75 ohms
- One Ethernet GbE RJ-45 LAN interface for data output
- One Ethernet 100Base-T interface for monitor and control
- Micro SD slot

Physical/Environmental

- Height: 1.41 in (3.58 cm)
- Width: 5.22 in (13.26 cm)
- Depth: 4.95 in (12.56 cm)
- Weight: 1 lbs (0.46 kg)
- Operating Temperature: 0C to 40C

Standards/Regulatory

- UDP/IP Protocol
- IP Multicast + Unicast
- IGMP: V1.0, V2.0
- SNMP 2c
- ETSI 302307 PUB-S2
- ISO/IEC 13818-1
- ISO/IEC 13818-6
- IEEE 802.3 10/100 Mbps
- FCC/Industry Canada /CE
- EN 55022 (Emissions)
- EN 55024 (Immunity)
- EN 60960 (Safety)

Mounting Options

- 1RU Mounting Plate for up to three receivers
- 4RU Mounting system for mounting up to ten S400s to receive up to 20 transponders. See MSR400 brochure

Redundancy Solutions for High Availability

- See MSR400 brochure for configuration options of two to ten receivers with redundant or backup power supplies

Optional Features

- RS232 interface
- RS422 interface
- BISS mode 1 decryption
- CI slot for CAM or smartcard