

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

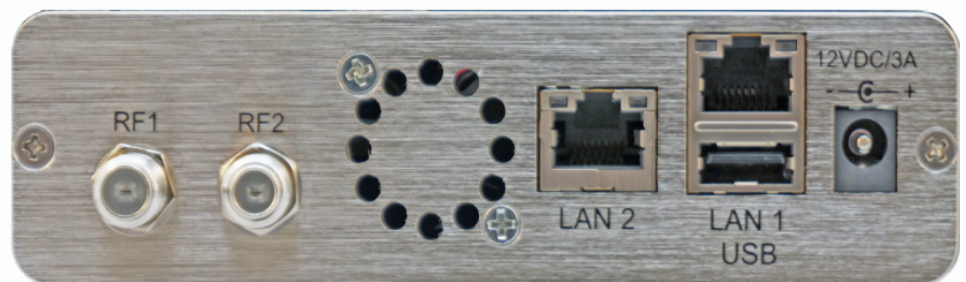
- DVB-S/DVB-S2 compliant
- Up to 100 Mb/s sustained throughput
- 2 x RJ45 100/1000BaseT Ethernet output interface
- Dual tuner or dual stream reception on a single F-jack
- Over-the-air configuration and firmware updates
- SNMP support for enterprise network management
- IPTV forwarding on multicast (SPTS/MPTS)
- 64 services of 8 PIDs
- SNMP Traps & SNMP v2c for monitoring
- Decryption options including BISS, an optional
- Single Common Interface (CI)
- USB interface for possible 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** DVB-S/S2 satellite data receiver. It incorporates new functionality, additional interfaces and 2 transponder capability and an LCD front panel display.

Enhanced capabilities of the **S400** family include increased throughput (up to 100 Mb/s), added GSE support for more 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** is ideally suited for a range of applications that require a full-featured, flexible, easily integrated satellite receiver.



TECHNICAL

Features

- Dual tuners for multiple transport systems
- Full Transponder Program Listing
- Selectable SI Table PID pass-through
- Single Program PAT Re-generation
- Exceptional Flexibility Delivery of IP SPTS/ MPTS or MPEG Services
- CI Slot for CAM and Smart Card

DVB-S

- Viterbi 1/2, 2/3, 3/4, 5/6, 6/7, 7/8 puncture rates
- Reed Soliman 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: \pm 10 MHz above 10 Msps
- Input Signal Level: -70 dBm to -25 dBm Multi-standard Demodulation
- QPSK: 100 Ksps to 67.5 MS/s
- 8PSK: 100 Ksps to 63 MS/s
- 16 APSK: 100 Ksps to 47 MS/s
- 32 APSK: 100 Ksps to 38 MS/s
- Automatic Symbol Rate detection and lock
- Automatic Code Rate detection and lock
- Data Throughput: 170 Mbps
- Nyquist Root Filter: 0.2, 0.25, 0.35 rolloff
- Multi-stream VCM
- ISI Filtering
- ACM Support

Gold Code

- 0 to 262143 Sequence Selection

LNB Power and Control

- LNB Supply Voltage: 11/15V, 13/18V, 21V or off
- LNB Supply with long line compensation +1 volt
- LNB Control: 22 KHz, 44 KHz, or off
- LNB Supply Current: 400 mA with Short Circuit and Surge Protection

Configuration

- Web based configuration and management
- Over the air configuration and firmware update
- OTA and scheduled record content
- Management Console Application available as an MS Windows Executable
- Command Line tool available for Linux, Windows, MAC OS, and FreeBSD

Status Monitoring

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

Status Indicators

- Power: Red LED
- Lock/Data: GreenLED
- 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

- RF Input Connector: F-Type, 75 ohms
- Ethernet 10/1000 Base-T LAN Interface: RJ-45
- CI Slot: PCMCIA
- USB 2.0 w/500mA
- 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
- Storage Temperature: -55C to 85C
- Operating Humidity: 10 to 90% Non-Condensing

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 (Emission)/EN 55024 (Immunity)
- Safety EN 60950

Mounting Options

- 1RU Mounting Plate for a single receivers
- 1RU Mounting Plate for up to three receivers

Redundancy Solutions for 100% Availability

- 1 RU enclosure for multiple receivers
- Redundant or Backup Power Supplies
- See MSR300CA Brochure for options

Optional Features

- Second 10/1000 Base-T LAN
- Second USB 2.0 w/500mA
- RS232 interface
- BISS mode 1 decryption
- CI slot for CAM or smartcard
- 2 x 16 character LCD display