



amesys

## IPr-S1200

### DVB-S/S2 Satellite IP Router Receiver



The **IPr-S1200** satellite broadband Router Receiver is designed to focus on high-speed data connectivity.

The **IPr-S1200** is especially suited for backbone connectivity, video distribution and network monitoring, and meant to deliver the best broadband IP services along with the most reliable solution on the market.

The **IPr-S1200** fulfils demand of customers looking for a powerful satellite router receiver capable of handling both **DVB-S** and the new **DVB-S2** standard.

Like other **IPricot** equipments, the **IPr-S1200** can be easily integrated within any existing network and can be configured and monitored through several management interfaces.

The **IPr-S1200** was developed BY skilled professionals, WITH professional components and designed FOR professionals.

***Speed up your data.***

## Highlights

### Capability

- Fully compliant DVB/MPE & PES, IP, MPEG-2
- Unicast, Multicast, Broadcast Bridging or Routing (Static, IGMP, DVMRP, NAT, Firewall)

### Performance

- DVB-S2: QPSK & 8PSK modulations, **3-30** Mbauds
- DVB-S: QPSK modulation, **1-45** Mbauds
- Satellite interface up to **90** Mbit/s of data.
- Up to **80** Mbit/s IP throughput sustained w/ up to **8192** PIDs simultaneously

### Reliability

- Additional processor for watchdog control
- No on-board mechanical components
- Telecom quality grade

### Manageability

- Easy integration within any existing architecture (no third party software needed)
- Easy to install & set-up
- Management & monitoring through LCD display & key pad, console, telnet, SSH\*, web, SNMP
- Management of configuration profiles

### Scalability

- Complete list of optional software for differentiated services offering
- Exclusive flash card embedding OS, software & profiles

**Physical Interfaces**

- LCD Front Panel (20 characters x 2) Display and Keypad
- LED Indicators (Unlock, DVB data reception, LAN Activity, Power)
- Modem RS-232, Max 115.2 Kbit/s (D-sub DE9M)
- Console RS-232, Max 115.2 Kbit/s (RJ45)
- Ethernet 10/100 Mbit/s (RJ45)
- L-band tuner in/out(passthrough) F-type (950-2150 Mhz)

**RF Tuner**

- Input Impedance: 75 Ohms
- LNB Power Supply: 13/18V/OFF, 350mA max.
- Over Current & Short Circuit Protection
- Band Switch Control using 22 KHz Signal
- Input power: -65 to -25 dBm max.
- Clock acquisition range:  $\pm 200$  ppm
- Carrier acquisition range:  $\pm 3$  MHz

**Demodulator**

- **DVB-S2** (EN 302 307), Normal Frames, CCM mode, LDPC & BCH decoder. QPSK, 8PSK (3 -30 Mbauds):
  - QPSK FEC rate: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
  - 8PSK FEC rate: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10
- **DVB-S** (ETS 300 421) demodulator, descrambler, Viterbi & outer Reed-Solomon decoder. QPSK (1-45 Mbauds):
  - QPSK FEC rate: 1/2, 2/3, 3/4, 5/6, 7/8
- Automatic Spectral Inversion Ambiguity Resolution
- Forward Error Correction: Manual & Automatic
- DVB-S2 pilot processing
- Digital Nyquist root filter roll-off: 20%, 25% and 35%
- Automatic Frame Synchronization

**Demultiplexer**

- ITU-T H.222.0, ISO/IEC 13818 - 1 (System)
- ISO/IEC 13818 - 6 (DSM CC)

**Encapsulation Protocols**

- Multi Protocol Encapsulation (MPE) Fully Compliant - LLC SNAP Fully Compliant (802.1, 802.2, 802.1 & 802.2)
- Data Streaming (PES) Fully Compliant

**C/N Performance thresholds**

(DVB-S2, Pilot ON, "Quasi Error Free" operation)

- |        |     |     |     |     |      |      |     |      |
|--------|-----|-----|-----|-----|------|------|-----|------|
| ▪ QPSK | 1/2 | 3/5 | 2/3 | 3/4 | 4/5  | 5/6  | 8/9 | 9/10 |
| C/N:   | 1.2 | 2.4 | 3.2 | 4.2 | 4.8  | 5.3  | 6.4 | 6.6  |
| ▪ 8PSK | 3/5 | 2/3 | 3/4 | 5/6 | 8/9  | 9/10 |     |      |
| C/N:   | 5.8 | 6.8 | 8.1 | 9.6 | 10.9 | 11.3 |     |      |

**General / Environment**

- Operating Temperature: +5°C to +50°C
- Internal power supply: 100-240 V AC, 50/60 Hz
- Power Consumption: 10.2 W max.
- Dimensions (HxWxD): 4.4 x 48.2 x 32 cm (1 RU)
- Unit weight: approx. 3.0 kg (including rack-mount kit)

**Management Interfaces**

- Multiple Local & Remote Management & Monitoring Interfaces: SNMP, LCD Display & Key Pad, Web, CLI (console, telnet and SSH\*)
- Complete IPricot API for remote management through proprietary software.

**Network Services**

- Unicast, Multicast, Broadcast Routing or Bridging (Static, IGMP, DVMRP)
- PPP, PPTP, UDLR
- Full featured Firewall - Dynamic NAT

**DVB Settings**

- Modulation / Frequency / Polarization / Baud Rate / FEC (Manual or Auto)
- LNB Type / Voltage / Power Tuning & Scanning Frequency
- PID & LLC SNAP Filtering, MAC Address Filter (1-6 Bytes), Multiple MAC Address Filtering
- IP Copy

**Settings & Controls**

- Profile Management (Save / Restore / Delete)
- Up to 32 Profiles on FlashCard
- Firmware Management (Load / Backup / View Contents & Versions)
- HTTP & TFTP Load and Backup of Firmwares & Profiles
- Read & Write Passwords for all Interfaces
- IP Address & Mask / ICMP Redirect / Date & Time / System Reset /...

**Monitoring Counters**

- |                      |                    |
|----------------------|--------------------|
| ▪ BER                | IP Packets & Bytes |
| ▪ C/N                | Lock & Status      |
| ▪ Symbol (Baud) Rate | Temperature        |
| ▪ IP (Data) Rate     |                    |

**Monitoring Tools**

- |              |          |
|--------------|----------|
| ▪ DVB Stat   | DVB Dump |
| ▪ Ping       | TS Dump  |
| ▪ Traceroute | IP Dump  |
| ▪ Syslog     | Netstat  |

\* Options - Other options might be available upon request

Version 080606-01

Specifications are subject to change without notice.

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