



## IPr-S1100

*Broadband Satellite IP Router Receiver*  
*DVB-S and DVB-DSNG compliant*



The **IPr-S1100** satellite broadband Router Receiver is designed to focus on high-speed data connectivity. This rocket version of the **IPr-S** family allows operators and service providers to increase their bandwidth efficiency using the new **8PSK** and **16QAM** modulations.

The **IPr-S1100** is especially suited for backbone connectivity, video distribution and network monitoring. It is meant to deliver the best broadband IP services along with the most reliable solution on the market.

**BUY NOW**

The **IPr-S1100** 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-S/DSNG: QPSK, 8PSK & 16QAM modulations, **1-45** Mbauds
- Satellite interface up to **145** Mbit/s of data
- Up to **100** 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 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)
- Dual L-band tuner input F-type (950-2150 Mhz)

### RF Tuner

- Dual L-band input (950-2150 Mhz)
- Input Impedance: 75 Ohms
- Connector: F-Type
- LNB Power Supply: 13V/18V/OFF, 350 mA max.
- Over Current & Short Circuit Protection
- Band Switch Control using 22 KHz Signal
- Signal level density Co: -130 to -105 dBm/Hz
- Signal level: Co + 10log(sat. baud rate) (dBm)
- Total input power: -25 dBm max.
- Clock acquisition range: ± 200 ppm
- Carrier acquisition range: ± 3 MHz

### Demodulator

- **DVB-S** (ETS 300 421) and **DVB-DSNG** (EN 301 210) demodulator and FEC decoder compliant - QPSK, 8PSK, 16QAM (1-45 Mbauds)
  - QPSK, FEC rate : 1/2,2/3,3/4,5/6,7/8
  - 8PSK, FEC rate : 2/3,5/6,8/9
  - 16QAM, FEC rate : 3/4,7/8
- Automatic Spectral Inversion Ambiguity Resolution
- Forward Error Correction (Automatic Detection)
- Half Nyquist filter roll-off: 20% - 25% and 35%
- Automatic Frame Synchronization
- DVB-S Descrambler

### 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

### 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: 4.5 kg (including rack-mount kit)



Post Office Box 1639  
 101 Eagle Road - Building #7  
 Avon, Colorado 81620 USA  
 970 748-3094 or tollfree 866 SATCOM1  
 Fax 970 748-3096  
 www.satcomresources.com

### 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, UDRL
- 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

- VBER / CBER IP Packets & Bytes
- Digital Level / Eb/No Lock & Status
- Symbol (Baud) Rate Temperature
- IP (Data) Rate

### Monitoring Tools

- Spectrum Analyzer DVB Dump
- Ping TS Dump
- Traceroute IP Dump
- Syslog Netstat
- DVB Stat

\* Options - Other options might be available upon request

Version 070419-01

Specifications are subject to change without notice.

© Copyright 2007 IPricot. All rights reserved.