



IPr-S500 IR IP/DVB Satellite Router Receiver With Irdeto Cyphercast



The **IPr-S500IR** satellite broadband Router Receiver is designed to secure the delivery of any streaming media application including content delivery, distance learning, corporate training, business TV, data caching and entertainment business.

The **IPr-S500IR** can decrypt and route **Irdeto Cyphercast**® IP content. It provides a High level of security using 128bits AES encryption (Irdeto Access Cyphercast), dynamic key allocation and an embedded smart card reader similar to DVB-CA.

Highlights

- Ultra portable “Man Pack” - Half the size of a 1U Rack
- High level of security using 128bits AES
- Cost Effective Solution using Multicast protocols
- High Performance using embedded architecture (hardware decryption)
- Smart Card Reader

Performance

- DVB-S: QPSK **1-45** Mbauds
- Satellite interface up to **72.5** Mbit/s of data.
- Up to **35** Mbit/s IP throughput decrypted 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
- Up to 100000 sites per system encryptor

Physical Interfaces

- LCD Front Panel (20 characters x 2) Display and Keypad
- LED Indicators (Unlock, DVB reception, LAN Activity, Power)
- Signal RS-232, Max 115.2 Kbit/s (Serial 9-Pin D-Sub (Male))
- Console RS-232, Max 115.2 Kbit/s (RJ45)
- Ethernet 10/100 Mbit/s (RJ45)



RF Tuner

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

Demodulator

- DVB-S: QPSK 1-45 Mbauds
- Including Spectral Inversion Ambiguity Resolution
- Forward Error Correction (Automatic Detection)
- MCPC / SCPC
- 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)

DVB SI-DAT (EN 301 192)

Specifications for Data Broadcasting Used for IP/Ethernet over MPEG-2

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

IP Protocols

- Fully IPv4 Compliant (RFC 791, 792, 919, 922, 950, 1112)
- Fully UDP Compliant (RFC 768)
- Fully TCP Compliant (RFC 793)
- Fully PPP Compliant (RFC 1661, 1662)
- PPP over PSTN Modem or ISDN TA
- Fully UDLR Compliant (RFC 3077)
- Fully PPTP Compliant (RFC 2637)

General / Environment

- Safety: CE, FCC
- Operating Temperature: +5°C to +50°C
- External power supply: 100-240 V in / 12 V out
- Power Consumption: 10.2 W max.
- Dimensions (HxWxD): 4.4 x 22 x 21.5 cm
- Unit weight: 1.6 kg
- Power Supply weight: 300 g

Management Interfaces

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

Packet Forwarding

- Unicast, Multicast, Broadcast Routing or Bridging (Static, IGMP, DVMRP, Dynamic NAT)

DVB Settings

- Modulation / Frequency / Polarization / Baud Rate / FEC (Manual or Auto)
- LNB Type / Voltage / Power Tuning & Scanning Frequency
- 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

version 061113-01

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Specifications are subject to change without notice.