

IPR-S500



Satellite IP Router Receiver

The **IPR-S500** satellite broadband Router Receiver is designed for agency and SME type environments for content distribution and hybrid access type applications such as BTV, corporate communication, distance learning, file transfer, and push.

The IPR-S500 fulfils demand for customers looking for a cost-effective solution while having some of the general characteristics of our enterprise products, providing mid range performance in a value minded package.

Speed up your data.

Highlights

Capability

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

Performance

- QPSK modulation, 2-45 Mbauds
- Up to **40** Mbit/s throughput (32 PIDs)

Reliability

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

Manageability

- Return channel management via router, modem, PPP, UDLR or PPTP
- 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

- Exclusive flash card embedding OS, software & profiles

General Features

Shelf Top, 1 U Format
DVB Compliant
Universal LNB Compatible / US / Asia LNB
MCPC, SCPC, C-Band / Ku-Band / L-Band
ATSC / DVB Data Broadcasting Standard :

- . Multi Protocol Encapsulation (MPE)
- . Data Streaming (PES)

Replaceable Flash Memory Containing Embedded Software & OS
Easy OS Update in Flash Memory
High Reliability via Watchdog Control
Ability to Embed Private Applications

Tuner

Input Frequency : 950 - 2150 MHz (L-Band)
Input Impedance : 75 Ohms
Connector : F-Type
LNB Power Supply : 14/18V/OFF, Max 350 mA
Over Current & Short Circuit Protection
Band Switch Control using 22 KHz Signal
DISEqC 1.2 Ready

Demodulator

QPSK
Symbole Rate : 2 - 45 Mbauds
Outer Decoder Reed Solomon (204, 188)
Deinterleaver Convolutional (Depth 12)
Including Spectral Inversion Ambiguity Resolution
Forward Error Correction (Automatic Detection)
Viterbi Code Rate 1/2, 2/3, 3/4, 5/6, 7/8
MCPC / SCPC
Nyquist Baseband Filters
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
Up to 40 Mbit/s Sustained (32 PIDs)
Multi Protocol Encapsulation (MPE) Fully Compliant
LLC SNAP Fully Compliant (802.1, 802.2, 802.1 & 802.2)
Data Streaming (PES) Fully Compliant

Physical Interfaces

LCD Front Panel (20 characters x 2) Display and Keypad
LED Indicators (Unlock, Status, 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 10BaseT & Fast Ethernet 100BaseT (Network RJ45)

General / Environment

Safety : CE, FCC
Operating Temperature : +5°C to +40°C
Weight : 3.2 lbs 1,4 kg
Dimension : Shelf Top, 1 U Format

Management Interfaces

Multiple Remote Control and Management Interfaces :
SNMP LCD Display & Key Pad
Web Interface Telnet SSH

Routing

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

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)

Security / Encryption

IPCrypt* IPsec*
SSH* Fixed key Cas (hard option)

DVB

Settings :

Frequency / Polarization / Baud Rate / FEC (Manual or Auto)
LNB Type / Voltage / Power Tuning & Scanning Frequency
MAC Address Filter (1-6 Bytes) Multi MAC Address Filter
IP Copy

Monitoring :

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

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 Firmware & Profiles
Read & Write Passwords for all Interfaces
IP Address & Mask / ICMP Redirect / Date & Time / System Reset / ...

Monitoring Tools

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

* Options

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