



Sky2LAN (S75) Satellite Router

Overview

Broadband Technologies' Sky2LAN DVB-S receiver brings superior throughput performance and flexibility to a very cost-effective solution. The Sky2LAN has been designed to enable delivery of the next generation of broadband services. Its RJ45 Ethernet connection provides powerful and distinct installation, performance, and maintenance advantages over other form factors. Installation of the Sky2LAN is easy and non-invasive, as the host machine does not need to be opened, nor are any drivers required. The Sky2LAN works with any operating system and makes the received data available to any host on the LAN. The ability to forward unicast IP, or raw DVB, such as broadcast television over IP onto the LAN provides powerful flexibility to the user. Throughput performance and functionality far exceed comparable offerings, making the Sky2LAN an exceptional value in its class.



Applications

The Sky2LAN is perfectly suited for consumer or small-medium enterprise use, delivering IP based applications like file delivery, streaming content, distance learning, Internet over satellite and broadcast TV to a single host or to a network of hosts. The Sky2LAN can also easily be used for embedded or special function applications that require low-level access to the DVB transport stream.

Standard Features

- Exceptional Cost / Performance
- 55 Mbps Sustained Throughput
- Remote Upgradability
- Compatible with the TCP/IP Protocol Suite
- Static or Dynamic MAC
- Small Footprint
- DVB Compliant
- RJ45 10/100BaseT Ethernet Interface
- PID Filtering or Unlimited PIDs
- Application Transparent
- IGMP

Sky2LAN (S75) Satellite Router

Technical Specifications

RF Tuner

- Receiving Frequency: 950 to 2150 Mhz
- Frequency Acquisition: $\pm 50\%$ Symbol Rate up to ± 10 Mhz
- Input Signal Level: -65 dBm to -25 dBm

QPSK

- Symbol Rate: 1.5 to 45 MS/s
- Data Rate: 55 Mbps
- Root-Raise Cosine Filter with Roll-off 0.35

FEC

- Decoding: Viterbi/Reed-Solomon
- Viterbi Inner Code: K=7, R=1/2, 2/3, 3/4, 5/6, 7/8
- Reed-Solomon Decoding: 204, 188, T=8
- Deinterleaving: Interleaving Depth=12

LNB Power and Control

- LNB Supply Voltage: Selectable 13V, 18V or Off
- LNB Control: 22 kHz Tone
- LNB Supply Current: 400mA with Short Circuit and Surge Protection

Configuration

- IP Address Configuration
- PID Selection
- LNB Power
- Transponder Settings: Symbol Rate, Frequency, Polarization, Band, Power
- Management Console Application Currently Available as Both an Executable and a DLL for MS Windows
- Linux library

Status Monitoring

- Signal Strength
- Signal Lock, Data Lock
- Error status: Viterbi BER, Uncorrectable Errors

Status Indicators

- Power: Red LED
- Signal: Green LED
- Lock: Green LED
- Ethernet Link and Transmit

Hardware Capabilities

- Multiprotocol Encapsulation (MPE)
- PID Filters: 16
- Internal Hardware Watchdog
- Non-Volatile Configuration Storage
- Non-MPE PID forwarding (optional)

Physical Interfaces

- RF Input Connector: F-Type, 75 Ohms
- Ethernet 100 Base T-LAN Interface: RJ-45

Physical/Environment

- Height : 1.23 in (3.12 cm)
- Width : 5.22 in (13.27 cm)
- Depth : 3.90 in (9.92 cm)
- Operating Temperature : 0C to 60C
- Storage Temperature : -55C to 85C
- Operating Humidity: 10 to 90% Non-Condensing

Standards/Regulatory

- UDP/TCP/IP Protocol
- IP Multicast
- IGMP: V1.0, V2.0
- ETSI 301.192 DVB
- ISO/IEC 13818-1
- ISO/IEC 13818-6
- IEEE 802.3 10/100 Mbps
- FCC/Industry Canada
- CE
- Emission EN 55022
- Immunity EN 55024
- Safety EN 60950

BROADBAND TECHNOLOGIES, INC.

<http://www.bbti.us>

Corporate Office:
11270 Sun Valley Drive
Oakland, CA 94605
Phone/Fax: (510) 632-3319

Sales Office:
PO Box 85
Rensselaerville, NY 12147
Phone: (518) 827-8502