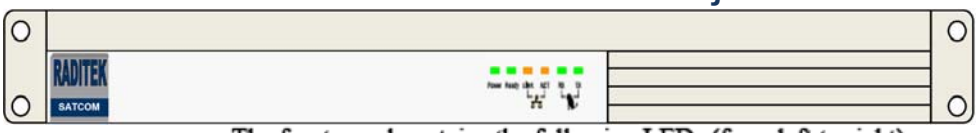
RSATMOD-L-SCPC-OPT-j4

Code J4



The front panel contains the following LEDs (from left to right).

- Power LED - *Green*. Indicates power on when lit.
- IDU Ready - *Green*. Indicates IDU is ready when lit.
  When flashing it indicates the SIT is in "Hold" state.
- LINK - *Amber*. Indicates that the Ethernet port is connected.
- ACT - *Amber*. Indicates activity on the Ethernet port of the IDU.
- Rx - *Green*. Indicates forward link is acquired when lit.
  When flashing it indicates the tuner is locked.
- Tx - *Green*. Indicates return link is acquired when lit.

Preliminary Data sheet.

Features:

- **L band IF**
- **Lowest cost, high performance Modem**
- **Efficient DVB-SC with ACM and CCM**
- **Up to 10Mbps data rate, both directions SCPC**
- **PC-GUI based control**
- **GPS port**
- **Simple Ethernet connectivity: Router and LAN/WAN**
- **TCP/HTTP data compression and acceleration**
- **Supports VLAN and VOIP**

- DVB-S2 (ACM,VCM,CCM)/S downstream up to 135Mbps (hub to remote) with IP up to 40Mbps
- SCPC (DVB-S or DVB-S2) or RCS upstream (remote to hub) with IP up to 10Mbps
- GUI-based control
- Easy-to-configure Ethernet connectivity to your PC, LAN or Router
- On-board TCP and HTTP acceleration and on-board data compression
- Application QoS & VoIP support
- VPN and accelerated VPN support
- VLAN support
- GPS input port
- Simple installation
- 19 inch, 1U rack mountable
- Low Cost

RSATMOD-L-SCPC is one of Raditek's latest, low cost modems. It will broadcast/multicast/unicast up to 10Mbps, and is fully optimized for all IP based point to point DVB-S2 applications

Raditek is a pioneer with Satcom VSATs and base station technology and now leads with cost effective modem solutions. Raditek can support point to point/multipoint in all the commercial bands (C, X, Ku, Ka) and all kinds of power options. This modem is optimized for high performance for enterprise, government and service providers etc.

The 19 inch, 1U rack mount unit supports DVB-S2 SCPC Point to point operation, thereby optimizing the high bandwidth efficiency link with DVB-S2 in both directions.

The unit connects direct to any WAN/LAN, with TCP and HTTP acceleration, data compression and optional accelerated VPN support.

For the best network solution requiring a hub and many remotes, Raditek has several solutions, starting with its ultra low cost RSMOD-L-rural remote modem. This will give the best possible space segment efficiency using DVB-RCS technology which allows a statistical DAMA approach to fully utilize the satellite to the optimum efficiency.

WORLD HQ: 1702L Meridian Ave. Suite 127, San Jose, Ca 95125, U.S.A.
Tel: (408) 266-7404 FAX: (408) 266-4483
WEB: www.raditek.com E-mail: sales@raditek.com

RSATMOD-L-SCPC-OPT-j4

Network Architectures	Point-to-Point, Point-to-MultiPoint
Sample Services	DVB-RCS, DVB-S2, DVB-S, TCP/IP, UDP/TCP, Unicast, Multicast, Broadcast Protocols, FTP, HTTP, SNMP, ICMP, IGMP, DHCP, RIP, RTP, VLAN
Quality of Service	Multiple Queues, Filtering on IP Header, QoS Groups
Air Interface	Downstream (hub to remote) point-to-point: - DVB-S2 ACM,CCM (QPSK,8PSK) - Encapsulation: IP over MPEG with section packing
	Downstream (hub to remote) DVB-S/S2 SCPC or DVB-RCS point-to-multipoint: - DVB-S (QPSK), DVB-S2 ACM,VCM,CCM (QPSK,8PSK,16APSK) - Encapsulation: IP over MPEG with section packing
	Upstream (remote to hub) DVB-S SCPC: - DVB-S (QPSK,8PSK) - Encapsulation: IP over MPEG with section packing
	Upstream (remote to hub) DVB-S2 point-to-point & DVB-S2 SCPC point-to-multipoint: - DVB-S2 ACM,VCM,CCM (QPSK,8PSK) - Encapsulation: IP over MPEG with section packing
	Upstream (remote to hub) DVB-RCS: - DVB-RCS (QPSK, 8PSK) - Encapsulation: IP over ATM (DVB-RCS), IP over MPEG with section packing
Coding	RS/Convolutional (DVB-S), LDPC (DVB-S2), Turbocoding (DVB-RCS)
Data Rates	Can receive the entire DVB-S2 135 Mbps carrier with a maximum IP throughput of 40 Mbps
Upstream Burst Rates	64 kbps up to 10Mbps
Network Interface	Ethernet 10/100 BaseT, RJ45 connector
ODU Interface	L-Band Rx; L-Band Tx; F-type connectors
GPS Interface	RS-232 NMEA GPS input port (ideal for auto-deployable antenna solutions)
TCP/HTTP Acceleration	Included
Data Compression	Included
Security	Optional IPSec (3DES or AES)

Network Management	SNMP-based and GUI-based management, dual software loads, downloadable software upgrade over the air
BUC size	Up to 4W Ku (5W C) using internal power supply; higher wattage available with optional external power supply. Power supply for LNB and 10MHz reference for BUC provided.
Supply Voltage	100-240 VAC; 50Hz / 60 Hz
Certifications	CE, FCC, RoHs
Outdoor Unit Outdoor Units should be dimensioned for each satellite & application on a case by case basis to satisfy needs & requirements	Variables - Data Rate - Dish size - Tx Power - Link Quality & Availability
Example Applications	Internet/Intranet Access, LAN/WAN connectivity, Email, File Transfer, Video Conferencing, VoIP, Video Streaming, Backup Services, Backhauling, Private Networking, Video-On-Demand, SNG, Content Distribution and Contribution, and Maritime

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