



## Features

- DVB-S2 (CCM,VCM,ACM)/S receive up to 135 Mbps (hub to remote) with the Ethernet throughput up to 36 Mbps
- Up to 6 Mbps transmit (remote to hub)
- GUI-based control panel
- Easy-to-configure Ethernet connectivity to your PC, LAN or Router
- On-board TCP and HTTP acceleration, and compression
- Application QoS
- VoIP support
- VPN and accelerated VPN support (optional)
- VLAN support (optional)
- Easy and simple installation
- Small form factor, rack mountable options
- Automatic BUC/LNB disable for low power application

## Applications

Internet/Intranet Access, Email, File Transfer, Video Conferencing, VoIP, Rural Telephony, Video Streaming, Backup Services, Private Networking, Video-On-Demand, Distance Learning, and SCADA

## Overview

Advantech Wireless' S4920 SCADA VSAT terminals are DVB-RCS compliant. The S4920 design is derived from the S4120 with the addition of a RS-232 serial port and the capability to transfer this information over the air via UDP. They are optimized to achieve high-performance and quick response time for professional, enterprise and governmental applications in an economical fashion. The terminal has been designed with all key IP features to fulfill all the needs of an enterprise. The attractive design and small form-factor make it ideal as a cost-effective, desktop high-speed solution.

Thousands of the S4920 VSAT terminals can populate a DVB-RCS compliant hub in a teleport. The DVB-RCS compliance allows for other vendor's terminals to interoperate with the DVB-RCS terminals in the same network or with other vendor's hubs.

The S4920 offers powerful connectivity directly to the LAN/WAN environment or directly to a host computer. A truly professional solution, it is an out-of-the-box, ready-to-go, cost-effective broadband solution for SOHO & Enterprise use.

As a replacement for a cable or DSL connection, as a backup solution to provide continuity of operations or to provide broadband to remote regions, the Satnet S4920 performance provides bandwidth-on-demand.

Designed to support unicast or broadcast traffic up to 36 Mbps on the forward link (hub to remote terminal), with the choice of standardized DVB-S2 (CCM, VCM, ACM) or DVB-S transmissions, and up to 6 Mbps transmission on the return link (remote terminal to hub) the S4920 is ideally suited for all business needs.

## SATNET S4920 VSAT FEATURES & SPECIFICATIONS

<b>Network Architectures</b>	Star
<b>Sample Services</b>	DVB-RCS, TCP/IP, UDP/TCP, Unicast, Multicast, Broadcast Protocols, FTP, HTTP, SNMP, ICMP, IGMP, DHCP, RIP, RTP, VLAN
<b>Quality of Service</b>	Multiple Queues, Filtering on IP Header, QoS Groups, CRA, RBDC, VBDC, FCA
<b>Air Interface</b>	Receive (hub to remote): <ul style="list-style-type: none"><li>- DVB-S (QPSK), DVB-S2 CCM, VCM, ACM (QPSK, 8PSK, 16APSK, 32APSK)</li><li>- Encapsulation: IP over MPEG with section packing</li></ul> Transmit (remote to hub): <ul style="list-style-type: none"><li>- DVB-RCS (QPSK), 8PSK</li><li>- Encapsulation: IP over ATM, IP over MPEG with section packing</li></ul>
<b>Receive Coding</b>	RS/Convolutional or LDPC on the receive (all DVB-S2 MODCODs supported)
<b>Transmit Coding</b>	Turboencoding QPSK 2/5, 1/2, 2/3, 3/4, 4/5, 6/7; 8PSK 1/2, 2/3, 3/4, 4/5, 6/7
<b>Data Rates</b>	Can receive the entire DVB-S2 135 Mbps carrier with a maximum Ethernet throughput of 36 Mbps. Can transmit up to 6 Mbps
<b>Transmit Burst Rates</b>	64 kbps – 6 Mbps in 16 kbps increments
<b>Receive Rates</b>	1 Msymb/s — 45 Msymb/s
<b>Network Interface</b>	Ethernet 10/100 BaseT, RJ45 connector
<b>ODU Interface</b>	L-Band Rx; L-Band Tx; F-type connectors
<b>Security</b>	Optional IPSec (3DES or AES 256)
<b>Network Management</b>	SNMP-based and GUI-based management, dual software loads, downloadable software upgrade over the air
<b>BUC Size</b>	S4920 up to 2W; S4920H up to 4W; higher wattage available with optional power supply
<b>Supply Voltage</b>	100-240 VAC; 50 Hz / 60 Hz (with included PSU); +24VDC
<b>Power Consumption</b>	IDU in low power mode: 10W IDU+ODU in operational state: 50W typical with 2W BUC
<b>IDU Operating Temperature</b>	0C to +55C, 5% to 90% humidity, non-condensing
<b>IDU Storage Temperature</b>	-20C to +70C, 5% to 90% humidity
<b>Operating Altitude</b>	Up to 3000 m
<b>Weight &amp; Dimensions</b>	1.45 kg + 0.4 kg AC adaptor, D21 cm x W23 cm x H4.4 cm (1RU high)
<b>Certifications</b>	CE, FCC, RoHs, UL, CSA, Satlabs (DVB-S2 pending)
<b>Frequency Combinations</b>	Support of ODUs in C, Ku, Ka and X-Band

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