



Features

- DVB-S2/S downstream up to 80 Mbps (hub to remote) with the Ethernet throughput up to 36 Mbps
- Up to 6 Mbps upstream (remote to hub)
- GUI-based control panel
- Easy-to-configure Ethernet connectivity to your PC, LAN or Router
- On-board TCP and HTTP acceleration
- Application QoS
- VoIP support
- VPN and accelerated VPN support
- Easy and simple installation
- Small form factor, rack mountable options

Applications

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

Overview

Advantech Wireless' S4100 VSAT terminals are DVB-RCS compliant. 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; 19-inch rack mountable kits are available for special usages. Thousands of the S4100 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 S4100 offers powerful connectivity directly to the LAN/WAN environment or directly to a host computer. A truly professional solution, it's 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 S4100 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 or DVB-S transmissions, and up to 6 Mbps transmission on the return link (remote terminal to hub) the S4100 is ideally suited for all business needs.

S4100 DVB-RCS VSAT Terminals



S4100 VSAT FEATURES & SPECIFICATIONS

Network Architectures	Star, OBP Mesh
Sample Services	DVB-RCS, TCP/IP, UDP/TCP, Unicast, Multicast, Broadcast Protocols, FTP, HTTP, SNMP, ICMP, IGMP, DHCP, RIP, RTP, C2P, VLAN (option)
Quality of Service	Multiple Queues, Filtering on IP Header, QoS Groups
Air Interface	Downstream (hub to remote): - DVB-S (QPSK), DVB-S2 CCM (QPSK & 8PSK) - Encapsulation: IP over MPEG with section packing Upstream (remote to hub): - DVB-RCS (QPSK), 8PSK - Encapsulation: IP over ATM, IP over MPEG with section packing
Coding	RS/Convolutional or LDPC on the downstream; Turbocoding on the upstream
Data Rates	Can receive the entire DVB-S2 80 Mbps carrier with a maximum Ethernet throughput of 36 Mbps. Can transmit up to 6 Mbps
Upstream Burst Rates	64 kbps – 6 Mbps in 16 kbps increments
Network Interface	Ethernet 10/100 BaseT, RJ45 connector
ODU Interface	L-Band Rx; L-Band Tx; F-type connectors
TCP/HTTP Acceleration	Included
Data Compression	Optional
Security	IPSec option (3DES or AES)
Network Management	SNMP-based and GUI-based management, dual software loads, downloadable software upgrade over the air
BUC Size	Up to 2W; higher wattage available with optional power supply
Supply Voltage	100-240 VAC; 50 Hz / 60 Hz
Certifications	CE, FCC, RoHs, UL, CSA

Outdoor Unit
Outdoor units should be dimensioned for each satellite and application—on a case by case basis to satisfy needs and requirements

- Variables**
- Data Rate
 - Dish size
 - Tx Power
 - Link Quality & Availability

Frequency Combinations		Typical dimensioning sets (data rates refer to upstream)
Ka/Ku	128 kbps	75 cm/1W
	512 kbps	90 cm/1W
	2.048 Mbps	1.2M/2W
Ku/Ku	256 kbps	90 cm/1W
	1.024 Mbps	1.2M/2W
	4.096 Mbps	1.8M/4W
C/C	256 kbps	1.2M/5W
	512 kbps	1.8M/5W
	1.024 Mbps	1.8M/10W

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