

### **S4120 ACM DVB-RCS VSAT Terminal**



#### **Features**

- DVB-S/S2 (CCM, VCM, ACM) receive up to 135 Mbps (hub to remote) with the Ethernet throughput up to 36 Mbps
- Up to 4 Mbps transmit (remote to hub)
- GUI-based control panel
- Easy-to-configure Ethernet connectivity to your PC, LAN or Router
- On-board TCP & HTTP acceleration and compression
- Application QoS
- VoIP support
- VPN and accelerated VPN support (optional)
- Simple installation
- Small form factor
- Automatic BUC disable for low power applications

#### **Applications**

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

#### **Overview**

Advantech Wireless' S4120 VSAT terminals are DVB-RCS compliant. The S4120 fully supports DVB-S2 ACM/VCM/CCM capability. 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 S4120 VSAT terminals can populate a DVB-RCS compliant network. The DVB-RCS compliance allows for other vendor's terminals to interoperate with the Advantech DVB-RCS terminals in the same network or with other vendor's DVB-RCS hubs. The S4120 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 S4120 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 4 Mbps transmission on the return link (remote terminal to hub) the S4120 is ideally suited for all business needs.

# S4120 ACM DVB-RCS VSAT Terminals



<b>S4120 VSAT FEATURES &amp; SPECIFICATIONS</b>	
Network Architectures	Star, OBP
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, CRA, RBDC, VBDC, FCA
Air Interface	Downstream (hub to remote): - DVB-S (QPSK), DVB-S2 CCM, VCM, ACM (QPSK, 8PSK, 16APSK, 32APSK) - 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; Turboencoding on the upstream
Data Rates	- Can receive the entire DVB-S2 135 Mbps carrier with a maximum Ethernet throughput of 36 Mbps. - Can transmit up to 4 Mbps
Upstream Burst Rates	128 kbps – 4 Mbps in 16 kbps increments
Receive Rates	1 Msymb/s — 45 Msymb/s
Network Interface	Ethernet 10/100 BaseT, RJ45 connector
ODU Interface	TX:950-1450 MHz F-Type connector RX: 950-2150 MHz F-Type connector
TCP/HTTP Acceleration	Included
Data Compression	Included
Security	Optional IPsec option (3DES or AES 256)
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 (with included PSU); + 24VDC
Power Consumption	IDU: 13W
IDU Operating Temperature	0C to +55C, 5% to 90% humidity, non-condensing
IDU Storage Temperature	-20C to +70C, 5% to 90% humidity
Operating Altitude	Up to 3000 m
Weight & Dimensions	1.45 kg + 0.4 kg AC adaptor, D21 cm x W23 cm x H4.4 cm (1RU high)
Certifications	CE, FCC, RoHS, UL, CSA
Frequency Combinations	Support of ODUs in C, Ku, Ka and X-Band

**NORTH AMERICA  
USA**  
Tel: +1 703 659 9796  
Fax: +1 703 635 2212  
info.usa@advantechwireless.com

**CANADA**  
Tel: +1 514 420 0045  
Fax: +1 514 420 0073  
info.canada@advantechwireless.com

**EUROPE  
UNITED KINGDOM**  
Tel: +44 1480 357 600  
Fax: +44 1480 357 601  
info.uk@advantechwireless.com

**RUSSIA & CIS**  
Tel: +7 495 971 59 18  
info.russia@advantechwireless.com

**INDIA**  
Tel: +91 33 2415 5922  
info.india@advantechwireless.com

**SOUTH AMERICA**  
Tel: +1 514 420 0045  
Fax: +1 514 420 0073  
info.latam@advantechwireless.com

**BRAZIL**  
Tel: +55 11 3054 5701  
Fax: +55 11 3054 5701  
info.brazil@advantechwireless.com

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