

S5120 ACM DVB-RCS VSAT Terminal



Features

- DVB-S/S2 (CCM,VCM,ACM) receive up to 155 Mbps (hub to remote) with Ethernet throughput up to 40 Mbps
- Up to 8 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
- GPS input port
- Simple installation
- 19 inch 1U rack mountable
- 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 S5120 VSAT terminals are DVB-RCS compliant. The S5120 fully supports DVB-S2 ACM/VCM capability. They are optimized to achieve high-performance and quick response time for enterprise and governmental applications.

The terminal has been designed with all key IP features to fulfill all the needs of an enterprise. The 19-inch rack mountable form factor makes it ideal for high end use. Thousands of the S5120 VSAT terminals can populate a satellite network managed via a DVB-RCS compliant hub in a teleport. The DVB-RCS compliance allows for other vendors' terminals to interoperate with the DVB-RCS terminals in the same network or with other vendors' hubs.

The S5120 offers powerful connectivity directly to the LAN/WAN environment or directly to a host computer. A truly corporate solution, it is an out-of-the-box, ready-to-go, cost-effective broadband solution. For DVB-RCS applications and for high end government and enterprise use, the S5120 allows the optimized use of satellite bandwidth. Designed to support unicast or broadcast traffic up to 155 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 8 Mbps transmission on the return link (remote terminal to hub) the S5120 is ideally suited for all needs.

Technical Specifications

Network Architectures	Star, OBP Mesh (Amerhis)
Sample Services	DVB-RCS, TCP/IP, UDP/TCP, Unicast, Multicast, Broadcast Protocols, FTP, HTTP, SNMP, ICMP, IGMP, DHCP, RIP, RTP, VLAN, SNMP, ICMP, IGMP, DHCP, RIP
Quality of Service	Multiple Queues, Filtering on IP Header, QoS Groups, CRA, RBDC, VBDC, FCA
Air Interface	Receive (hub to remote): - DVB-S (QPSK), DVB-S2 CCM, VCM, ACM (QPSK, 8PSK, 16APSK, 32APSK) - Encapsulation: IP over MPEG with section packing Transmit (remote to hub): - DVB-RCS QPSK, 8PSK - Encapsulation: IP over ATM, IP over MPEG with section packing
Receive Coding	RS/Convolutional or LDPC on the receive (all DVB-S2 MODCODs supported)
Transmit Coding	Turbocoding QPSK 1/2, 2/3, 3/4, 4/5, 6/7 8PSK 1/2, 2/3, 3/4, 4/5, 6/7
Data Rates	Can receive the entire DVB-S2 155 Mbps carrier with a maximum Ethernet throughput of 40 Mbps. Can transmit up to 8 Mbps
Transmit Burst Rates	128 kbps – 8 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
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 256)
Network Management	SNMP-based and GUI-based management, dual software loads, downloadable software upgrade over the air
BUC Size	Up to 8W Ku (Advantech BUC) using internal power supply; higher wattage available with optional external power supply
Supply Voltage	100-240 VAC; 50Hz / 60 Hz
Power Consumption	IDU: 15W
IDU Operating Temperature	0°C to +55°C, 5% to 90% humidity, non-condensing
IDU Storage Temperature	-20° C to +70 °C, 5% to 90% humidity
Operating Altitude	Up to 3000 m
Weight & Dimensions	6.5 kg, D31.5 cm x W43.5 cm x H4.5 cm (1RU high)
Certifications	CE, FCC, RoHs, UL, CSA
Frequency Combinations	Support of ODUs in C, Ku, Ka and X-Band

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