



Features

- DVB-S2 (CCM, VCM, ACM)/S receive up to 155 Mbps (hub to remote) with the Ethernet throughput up to 155 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 & HTTP acceleration and compression
- Application QoS
- VoIP support using dynamic bandwidth assignment for VoIP calls (CCP)
- VPN and accelerated VPN support (optional)
- Simple installation
- Small form factor
- Automatic BUC disable for low power applications
- Ideal for SME and SOHO users
- Supports clear sky Adaptive Return Links
- Roll off factor as low as 0.05
- Support for IPv4 and IPv6

Applications

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

Overview

Advantech Wireless' VR7000 VSAT terminals are our latest VSAT Terminal product. The VR7000 architecture is derived from the S4120 capability but with additional functionality such as higher forward link capacity, higher throughput and wider IF frequency range. 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 VR7000 VSAT terminals can populate an Advantech Wireless Discovery hub in a teleport. The DVB-RCS compliance allows for other vendor's terminals to interoperate with the Advantech Wireless DVB-RCS terminals in the same network as required. The VR7000 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 VR7000 performance provides bandwidth-on-demand. 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 VR7000 is ideally suited for all business needs.

VR7000 IP VSAT Terminal



VR7000 IP VSAT TERMINAL FEATURES & SPECIFICATIONS	
Network Architectures	Star, OBP Mesh (Amerhis/ REDSAT)
Sample Services	DVB-RCS, TCP/IP, UDP/TCP, Unicast, Multicast, Broadcast Protocols, FTP, HTTP, SNMP, ICMP, IGMP, DHCP, RIP, RTP, C2P, VLAN (option), NAT, PAT, CCP for VoIP, VRRP, BGP, DVB-RCS2 (future)
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, GSE
	- Coding: RS/Convolutional or LDPC
	- FEC Rates: All DVB-S2 and DVB-S rates
	- Data Rates: Can receive the entire DVB-S2 155 Mbps carrier with a maximum Ethernet throughput of 155 Mbps.
	-Roll off Factor: 0.05, 0.10, 0.15, 0.20, 0.25, 0.35
	Upstream (remote to hub):
	- QPSK, 8PSK, 16 QAM (future)
	- FEC rates: 1/3, 1/2, 2/3, 3/4, 4/5, 5/6, 6/7, 7/8
- Encapsulation: IP over ATM, IP over MPEG with section packing, GSE	
- Burst Rates: 128 kbps – 8 Mbps in 16 kbps increments	
Receive Rates	1 Msymb/s — 45 Msymb/s
Network Interface	2 Ethernet Ports 10/100/1000 BaseT, RJ-45 (1 Traffic Port, 1 Management Port)
ODU Interface	L-Band Rx; L-Band Tx; F-type connectors
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: 8W
IDU Operating Temperature	-10C 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
Frequency Combinations	Support of ODUs in C, Ku, Ka and X-Band
Modem Interfaces	RF input:
	- Impedance: 75 Ω
	- Frequency Band: 950 -2150 MHz
	- Level: -65 to -25 dBm
	RF output:
	- Impedance: 75 Ω
	- Frequency band: 950 – 1700 MHz
- Tx level max: 0 dBm (up to 30 dB attenuation configurable)	

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