



Features

- DVB-S2X/ S2 (CCM, VCM, ACM)/S receive up to 200 Mbps (hub to remote) with the Ethernet throughput up to 100 Mbps
- Up to 9.5 Mbps transmit (remote to hub) in TDMA mode
- Up to 20 Mbps transmit in SCPC mode for point-to-multipoint networks
- 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 terminal is part of our latest Family of VSAT Terminal products. The VR7000 architecture is derived from the S4120 capability but with additional functionality such as higher forward link capacity, higher IP throughput, SCPC transmit capability in point-to-multipoint networks 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 fulfil 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 the most efficient VSAT bandwidth-on-demand solution available. Designed to support unicast or broadcast traffic up to 200 Mbps on the forward link (hub to remote terminal), with the choice of standardized DVB-S2X/DVB-S2 (CCM, VCM, ACM) or DVB-S transmissions, and up to 9.5 Mbps TDMA or 20 Mbps SCPC transmission on the return link (remote terminal to hub) the VR7000 is ideally suited for SOHO, home and teleport needs.

VR7000 IP VSAT Terminal



Product features and specifications			
Air Interface Capabilities			
Downlink: DVB (Hub) Outbound		Inbound: MF-TDMA	
Technology	DVB-S2/S2X	Technology	DVB-RCS2/RCS
Format	MPEG-TS	Format	Multiple ATM, MPEG, RLE
Coding	LDPC and BCH	Coding	Turbo
Decapsulation	MPE	Encapsulation	AAL5, MPE
Roll-Off	12% up to 35%	Spacing	20% up to 35%
Modulations & FEC Rates	<u>QPSK</u> 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 <u>8PSK</u> 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 <u>16APSK</u> 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 <u>32APSK</u> 3/4, 4/5, 5/6, 8/9, 9/10	Modulations & FEC	<u>QPSK</u> 1/2, 2/3, 3/4, 4/5, 6/7 <u>8PSK</u> 1/2, 2/3, 3/4, 4/5, 6/7, <u>16QAM</u> 3/4, 5/6
Symbol Rate	Up to 67.5 Msps	Symbol Rate	8 Msps
Data Rate	Up to 80 Mbps throughput on Ethernet port	Data Rate	9.5 Mbps
Inbound: SCPC Point-to-Multipoint			
Technology	DVB-S2/S2X		
Format	MPEG/ATM		
Coding	LDPC and BCH		
Encapsulation	MPE/GSE		
Spacing	20% up to 35%		
Modulations & FEC Rates	<u>DVB-S2/S2X Compliant</u>		
Symbol Rate	10 Msps		
Data Rate	20 Mbps		
Features		Physical Characteristics	
	Supported – capable of advanced multiple waveform selection. MF-TDMA or SCPC in point-to-multipoint networks	RF Interfaces	Rx: 950 – 2150 MHz, 75 Ω, -65 to -25 dBm, F connector Tx: 950 – 2150 MHz, 75 Ω, Max. 0 dBm (up to 30 dB attenuation, configurable)
IP Protocols	IPv4 /IPv6, PIM-SM, PIM-DM, IGMP, DHCP Server, DHCP Relay, SNMP v1/2, DSCP/DiffServ, GRE, SIP, H.323, NAT	Data Interfaces	2 RJ45 LAN ports: 1 Data, 1 MGMT.
Various Networking Standards	IEEE802.1aq, IEEE802.1D, IEEE802.1X, IEEE802.1Q	Operating Temperature	-20 °C to + 60 °C , 5% to 90% humidity, non-condensing
Other Network Features	Layer 2 mode, Jumbo Frames, VLAN Tagging, Multicast forwarding, Access Lists, Firewall, Uplink Power Control	Storage Temperature	-20° C to +70 °C, 5% to 90% humidity
Routing protocols	BGP, RIP, OSPF, Static Routes.	Supply Voltage	100-240 VAC; 50Hz / 60 Hz
HW AES Encryption	True internal IPSEC capability.	Power Consumption	8W (excluding BUC power)
Caching	Supported along with DNS caching	Operating Altitude	Up to 3000 m
Acceleration	Fully supported.	Weight & Dimensions	1.45 kg + 0.4 kg AC adaptor D21cm x W23cm x H4.4cm (1RU high)
		Regulatory/Compliance	CE, IEC 60950-1 2006

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