Advantech Wireless

S6420 series

S6420 DVB-S2 Point-to-MultiPoint VSAT Terminals

DVB S2 · DVB RCS · DVB S
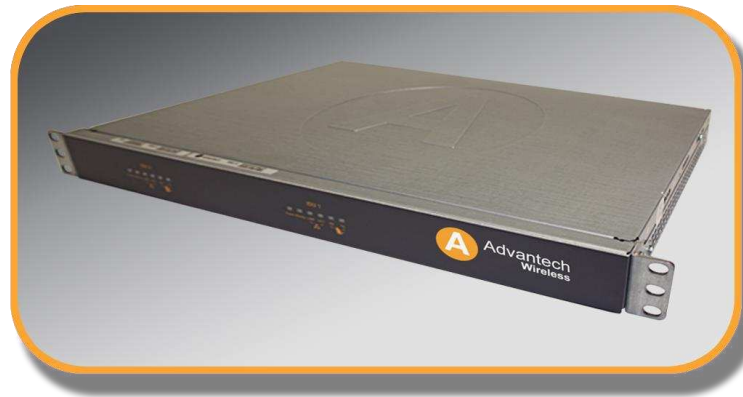
Features

- DVB-S2 (VCM,CCM) downstream up to 155 Mbps (hub to remote) with IP throughput up to 40 Mbps
- DVB-S2 (CCM) upstream (remote to hub) with IP throughput up to 10 Mbps
- GUI-based control panel
- Easy-to-configure Ethernet connectivity to your PC, LAN or Router
- On-board TCP and HTTP acceleration and data compression
- Application QoS and VoIP support
- VPN and accelerated VPN support (optional)
- VLAN support
- GPS input port
- Easy and simple installation
- 19 inch, 1U rack mountable
- Low cost

Overview

Advantech Wireless' S6420 VSAT terminals are DVB-S2 SCPC capable and provide Point-to-MultiPoint IP connectivity with industry leading performance at an extremely low price. They are optimized to achieve high-performance and quick response times for enterprise, service provider & governmental applications.

The terminal has been designed with all key IP features to fulfill professional needs. The 19-inch 1U rack mountable form factor makes it ideal for high end use. The S6420 supports DVB-S2 SCPC Point-to-MultiPoint operation, providing a two-way VSAT system with the high bandwidth efficiency of DVB-S2 in both directions.

The S6420 offers powerful connectivity directly to a LAN/WAN environment or to a host computer. A truly corporate solution, it is an out-of-the-box, ready-to-go, cost-effective broadband solution. For DVB-S2 applications and for high end government and enterprise use, the S6420 allows the optimized use of satellite bandwidth. Designed to support unicast or multicast traffic up to 155 Mbps on the forward link (hub to remote terminal), and up to 10 Mbps transmission on the return link (remote terminal to hub) the Advantech Wireless S6420 is ideally suited for all DVB-SCPC needs.

Technical Specifications

Network Architectures	Point-to-MultiPoint
Sample Services	DVB-S2, TCP/IP, UDP/TCP, Unicast, Multicast, Broadcast Protocols, FTP, HTTP, SNMP, ICMP, IGMP, DHCP, RIP, RTP, VLAN
Quality of Service	Multiple Queues, Filtering on IP Header, QoS Groups

Air Interface	**Downstream**:
	    - DVB-S2 VCM,CCM (QPSK,8PSK,16APSK)
	    - Encapsulation: IP over MPEG with section packing
	Upstream:
	    - DVB-S2 CCM (QPSK,8PSK)
	    - Encapsulation: IP over MPEG with section packing

Coding	LDPC on both the downstream and upstream
Data Rates	Can receive the entire DVB-S2 155 Mbps carrier with a maximum IP throughput of 40 Mbps
Upstream Burst Rates	128 kbps – 10 Mbps
Network Interface	Ethernet 10/100 BaseT, RJ45 connector
ODU Interface	L-Band Rx; L-Band Tx; F-type connectors
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 4W Ku (5W C) using internal power supply; higher wattage available with optional external power supply. Power supply for LNB and 10MHz reference for BUC provided
Supply Voltage	100-240 VAC; 50Hz / 60 Hz
Power Consumption	IDU: 15W (typical stanby mode)
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	6.5 kg, D27.5 cm x W43.5 cm x H4.5 cm (1RU high)
Certifications	CE
Frequency Combinations	Support of ODUs in C, Ku, Ka and X-Band
Sample Applications	Internet/Intranet Access, LAN/WAN connectivity, Email, File Transfer, Video Conferencing, VoIP, Video Streaming, Backup Services, Backhauling, Private Networking, Video-On-Demand, SNG, Content Distribution and Contribution, and Maritime
Sample Markets	Enterprise Governmental Network Operator/Service Provider
Access Technology	MF-TDMA, SCPC, A-SAT^{TM}