

S5420 DVB-S2 Point-to-MultiPoint VSAT Terminal



Features

- DVB-S2 (ACM, VCM,CCM) downstream up to 155 Mbps (hub to remote) with IP throughput up to 40 Mbps
- DVB-S2 (ACM, VCM, CCM) QPSK, 8PSK upstream remote to hub (16 APSK option available) with IP throughput up to 10 Mbps (20 Mbps optional)
- DVB-RCS upstream (remote to hub) with IP throughput up to 8Mbps
- GUI-based control interface
- 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' S5420 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 S5420 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 S5420 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 S5420 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 (20 Mbps optional) transmission on the return link (remote terminal to hub) the S5420 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, 32APSK) - 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 Data Rates	128 kbps – 10 Mbps (Optional 20Mbps)
Network Interface	Ethernet 10/100 BaseT, RJ45 connector
ODU Interface	Tx: 950-1450MHz; F-type connector RX:950-2150MHz; 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. Power supply for LNB/BUC and 10MHz reference for BUC provided
Supply Voltage	100-240 VAC; 50Hz / 60 Hz
Power Consumption	IDU: 15W (typical standby 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, D31.5 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

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

An ISO 9001 : 2008 Company



Ref.: PB-S5420PM-13150