ADVANTECH SATELLITE NETWORKS

DVB-RCS Deployable Antenna VSAT Terminals

> Auto-Deployable and Fly-Away Connectivity Solutions

Highlights

- True high speed connectivity of audio, voice, and data anywhere in the satellite coverage area
- High quality transmission
- Standard DC or AC power supply utilization
- Technical personnel not required for deployment

Overview

The deployable satellite antenna is your solution for transmitting and receiving audio, voice, and data. Applications include remote office, disaster recovery, temporary work environments, geographically challenged areas, construction sites, oil drilling, mining, network backup, telecommunication backup, law enforcement, forestry service, military multiple phone lines, and more.

The auto-deployable antenna is a high grade commercial motorized satellite antenna. Compared to alternative solutions the antenna can provide data rates that reaches speeds of 6 Mbps upload and 40 Mbps download. The antenna is an ideal solution for phone and data connectivity with the DVB-RCS platform or audio/video transmission.

With the auto-deployable antenna, transmitting and receiving voice, video, and data could not be any easier. With a simple push of a button, the transportable antenna, featuring Advantech's iPoint antenna controller, will be locked onto the satellite, transmitting and receiving content in less than five minutes.

Key Features

- Automatically locates and locks onto predetermined satellites in less than five minutes of deployment
- Available as truck-roof mount unit or fly-away unit in carrying cases
- Non-motorized fly-away solution also available
- Meets all applicable FCC requirements
- With our Series 5000 IDU, data rates are up to 6 Mbps inbound and 40 Mbps outbound

Platform

The platform is a flexible system designed for use in IP Broadband Satellite Access Networks. IP applications such as e-mail, file transfer, video streaming, and audio streaming are supported by the terminal as well as the unique multicast capability of satellite networks.

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DEPLOYABLE ANTENNA VSAT FEATURES & SPECIFICATIONS (with SERIES 5000 IDU)

Network Architectures	Star, Mesh
Sample Services	DVB-RCS, TCP/IP, UDP/TCP, Unicast, Multicast, Broadcast HTTP, SNMP, ICMP, IGMP, DHCP, RIP, RTP, C2P, VLAN (option)
Quality of Service	Multiple Queues, Filtering on IP Header, QoS Groups
Air Interface	Downstream (hub to remote): - DVB-S (QPSK), DVB-S2 CCM (QPSK & 8PSK), DVB-S2 ACM (incl. 16APSK) - Encapsulation: IP over MPEG with section packing Upstream (remote to hub): - DVB-RCS (QPSK), 8PSK - SCPC (QPSK, 8PSK) - Encapsulation: IP over ATM, IP over MPEG with section packing
Coding	RS/Convolutional or LDPC on the downstream; Turbo on the upstream
Data Rates	Can receive the entire DVB-S2 80 Mbps carrier with a maximum Ethernet throughput of 40 Mbps. Can transmit up to 6 Mbps.
Upstream Burst Rates	64 kbps—6 Mbps in 16kbps increments
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 (Series 5000 IDU)
TCP/HTTP Acceleration	Included
Data Compression	Optional
Security	IPSec option (3DES or AES)
Network Management	SNMP-based and GUI-based management, dual software loads, download-able software upgrade over the air
BUC Size	Up to 4W (using internal power supply); higher wattage available with optional external power supply
Supply Voltage	100-240 VAC; 50 Hz/60 Hz
Certifications	CE, FCC, RoHs

Outdoor Unit	**Variables**
Outdoor Units should be dimensioned for each satellite & application on a case by case basis to satisfy needs & requirements.	- Data Rate - Dish Size - Tx Power - Link Quality & Availability

Frequency Combinations		**Potential dimensioning sets**
Ku/Ku	128 kbps	90 cm/1W
	1.024 Mbps	1.2M/2W
	2.048 Mbps	1.8M/4W

Physical Characteristics

- Available in vehicle mount configurations
- Internal vehicle mounted electronics
- External vehicle integrated electronics
- Plastic housing covers (cowling)
- 10/100 base-T Ethernet
- Transportable, drive-away & fly-away configurations available
- Customized configurations on request
- 802.11a/b/g Wireless LAN
- 12 VDC, 100 to 240 VAC

Weight Range

- 76 cm/1W 85-150 lbs
- 1.2m/4W 175-225 lbs
- 96 cm/2W 100-150 lbs
- 1.8m/4W/8W 275-300 lbs

Typical Power Consumption

- 76 cm/1W 150W
- 1.2m/4W 450W
- 1.8m/8W 650W
- 96 cm/2W 200W
- 1.8m/4W 450W

DVB Digital Video Broadcasting · DVB-RCS · DVB S2 SATELLITE

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