



Armadillo™

Ruggedized VSAT For Reliable Networking in Any Location

SageNet's Armadillo VSAT is an integrated and durable weatherproof encased VSAT unit. Four main models are available: with AC or DC input, and SkyEdge® or SkyEdge® II. The Armadillo VSAT is designed for use with SageNet's advanced custom network and standard Spacenet Satellite Services™, providing a fast, secure and reliable networking solution for customers in any location.

The Armadillo VSAT supports a wide range of applications including: SCADA, video surveillance, military applications, and any other use where collection and transmission of critical data at remote outdoor locations is needed.

Key Features Include:

- Fully functional router for LAN management
- External dimensions: 300mm W X 200 mm H X 100 mm H
- Suitable for -40 degrees Celsius (-40° F) and up to 60 degrees Celsius (140° F) in direct sunlight (housing design minimizes thermal loading from sun exposure)
- Availability on SkyEdge and SkyEdge II VSATs
- Low power draw to provide low temperature rating (heating = 20 W)
- Internal heating and thermostat unit
- Sealed cable entrance
- Software embedded within the unit so there is no need for other non-weather proofed equipment
- Lightning protection

Service Options Include:

- Full-time primary or part-time Spacenet Satellite Services™
- Symmetric or asymmetric service options available
- 256-bit AES encryption over the satellite link
- IP traffic prioritization
- IPSec-encryption, or dedicated frame-relay, or ATM backhaul option from SageNet's hub



Benefits

- VSAT unit encased in industrial strength metal
- Suitable for extreme weather conditions
- 100% geographic availability
- Easy mounting requirements
- Fast network deployment
- Software is easily managed and updated remotely

Technical Specifications

Outbound Carrier

Standard	DVB-S2 ACM
Carrier Rate	256Ksps-45Msps (in 1Ksps steps)
Modulation	QPSK, 8PSK, 16APSK, 32ASPK
FEC Rate	1/4, 1/3, 2/5, 1/2, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10

Inbound Carrier

Access Scheme	MF-TDMA DVB-RCS Based: 3 Dimensional ACM
Channel Rates	128Ksps-2.56Msps
Modulation	QPSk, 8PSK
Coding	RCS based Turbo coding FEC 1/2; 2/3; 3/4; 4/5; 6/7

Remote Outdoor Unit

Antenna Size (typical)	Ku-Band: 1.2 M
Operating Temperature	-40° to +60° C
Humidity	Upt to 100%
Linear Transmitter ODU	Ku: 2W -20W
LNB	Standard TVRO type

Remote Indoor Unit

RF Input/Output	Two sealed F Connectors, 75 Ω female
Data Interface	Sealed RJ-45 Ethernet and 2 RS -232 Async 2
Operating Voltage	AC, 110V - 240V auto range or 10V to 59V DC
Power Consumption	Less than 45W
Security	AES-256 encryption (FIPS 197)

IP Features

Enhanced IP Features for Full Flexibility	RIP, IRDP, DHCP, NAT/PAT, IGMP, IP prioritization, ACP, VLAN, DiffServ, IPSEC
Other Features	Bandwidth on Demand, Multiple satellite support, Multiple outbound, TCP & HTTP acceleration, Multi-Level QoS

To learn more about SageNet Ruggedized Armadillo VSAT, visit our website, www.sagenet.com, or call 1-866-480-2263.

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