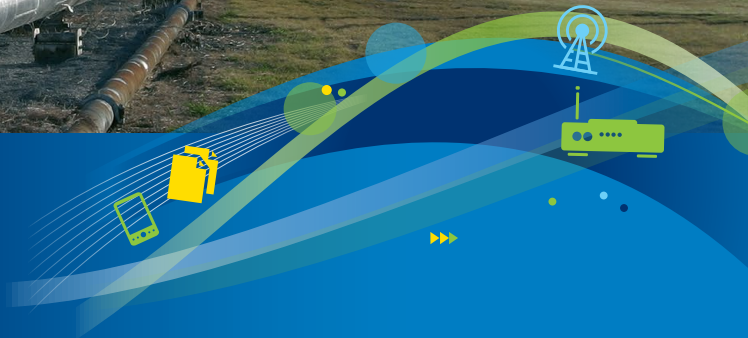




SkyEdge II Armadillo

All-Weather VSAT Solution



All-Outdoor VSAT

The SkyEdge II Armadillo is a comprehensive VSAT satellite communications solution designed for all-weather communications in harsh environments. Its winning combination of state-of-the-art VSAT technologies and rugged construction make SkyEdge II Armadillo the perfect VSAT for the collection and transmission of critical data at remote outdoor locations. Whether monitoring remote pipeline sections or smart grids, providing video surveillance of facilities, or other uses where information is required for proactive maintenance or security, SkyEdge II Armadillo is the optimal choice.

When Failure is Not an Option

SkyEdge II Armadillo is based on SkyEdge II IP VSAT technology, encompassing Gilat's considerable product experience with TCP and HTTP acceleration, QoS, high inbound bit rates, improved access schemes and modulations.

The SkyEdge II Armadillo was specially designed to function under severe weather conditions. All connectors are hermetically sealed to protect the electronics from water, sand and humidity. The internal heater provides a temperature-controlled environment for reliable operation in the most extreme conditions.

Integrated Functionality

Because acceleration and other critical software is embedded within the SkyEdge II Armadillo VSAT, there is no need for external boxes or other non-weatherproofed equipment. Software is easily managed, fully controlled and updated remotely from the Network Monitoring System.



Benefits

- A sealed, all-weather enclosure operational under a wide range of external conditions
- Temperature operating range of -40° to +60° C (-40° to +140° F)
- High reliability with industrial-grade components
- Internal thermostatically controlled heater for cold temperatures
- Increased lightning protection
- Weatherproof external connections



Technical Specifications

<i>Outbound Carrier</i>	
Standard	DVB-S2 Adaptive Coding and Modulation (ACM)
Carrier Rate	300Ksps - 45Msps (in 1Ksps steps)
Carrier Data Rate	Up to 135 Mbps
VSAT Data Throughput	Up to: 20 Mbps UDP, 7.5 Mbps TCP
Modulation	QPSK, 8PSK, 16APSK, 32ASPK
Coding	LDPC and BCH (DVB-S2)
FEC Rate (DVB-S2)	1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
<i>Inbound Carrier</i>	
Access Scheme	MF-TDMA DVB-RCS
Channel Rates	128Ksps-1.536 Msps
VSAT Data Throughput	Up to 2.8 Mbps UDP/TCP
Modulation	QPSK, 8PSK
Coding	Turbo coding FEC 1/2; 2/3; 3/4; 4/5; 6/7
<i>Enhanced Features</i>	
Enhanced IP features	Multi VRF and VLAN, IPv6, RIP, VRRP, DHCP, NAT/PAT, IGMP, IP prioritization, ACL, DiffServ
Other Features	Bandwidth on Demand, TCP and HTTP acceleration, Multi-Level QoS and MPN
Security	AES 256 Encryption
<i>Hardened VSAT Enclosure</i>	
RF Input/Output	Two F connectors, 75 W female
Data Interface	Ethernet 100BaseT
Operating Voltage	100-240V AC or 12V DC
Size	300mm x 200mm x 100mm
<i>Environmental Conditions</i>	
Operating Temperature	-40 to +60 C
Relative Humidity	Up to 100%
<i>Outdoor Unit</i>	
Antenna	Ka, Ku, Ext Ku, C
Operating Temperature	-40° to +60° C
Humidity	Up to 100%
Linear BUC interface	Internal 24V up to 4W BUC; External DC for 6W BUC and higher; Ka, Ku, Ext Ku, C
LNB	Standard TVRO type or PLL



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