GATR 950 iDirect Outdoor Modem

Features and Benefits

- Evolution Series IDX 3.4 and above, Velocity Capable (ARSTRAT Certified)

- Embedded carrier monitor enabling pointing and acquisition of the satellite signal over a web user interface

- Global broadcast system (GBS) in MPE mode

- Web-based user interface (WUI) for real-time monitoring, configuring and commissioning the satellite router

- Signal strength and network status LEDs to enhance ease of use

- Ruggedized for the harshest environments with -40°C to +50°C and waterproof enclosure (method 506.5, procedure 1)

The CUBIC | GATR e950 iDirect is a compact, rugged outdoor modem that is based on iDirect Velocity™ and Evolution technology. Ideal for mobile/transportable communications and packed with features, including built-in pointing assistance with a numerical signal display on the modem and a web-based user interface, ensuring stable communications no matter where your mission takes you.

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Specifications

Configuration				
Network Topology	Star		DownStream	UpStream
Modulation			DVB-S2/ACM/CCM Evolution/Velocity	Adaptive TDMA
			QPSK, 8PSK, 16APSK, 32APSK	BPSK, QPSK, 8PSK,16QAM
		FEC	LDPC 1/4 - 8/9	2D 16-State 1/2 - 6/7
Max Rates	Symbol		45 Msps	29 Msps
Spread Spectrum	Spreading Factor		N/A	2, 4, and 8
	Max Chip Rate		N/A	29 Mcps

Interfaces		
SatCom	Tx Out	N-Type 950-2400 MHz; Power: -35 to +5dBm
	Rx In	N-Type 950-2150 MHz; Max Composite: -5dBm
	Rx Out	N-Type 950-2150 MHz
Data and M&C	LAN	Two 10/100/1000 RJ45 Data Ports, One M&C Port w/Web User Interface (WUI)
	Console	Serial RS-232
	Auxiliary Interfaces	Serial GPS Interface at RS-232; BUC Keyline

Features and Compatibility		
Protocols Supported		TCP, UDP, ICMP, IGMP, RIP v2, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, cRTP, and GRE
Security		AES Link Encryption (256-bit), TRANSEC, FIPS 140-2 Level 3 Compliant, x.509 digital certificates authentication, Automatic Key Management
Traffic Engineering		Group QoS, QoS (Priority Queing and CBWFQ), Strict Priority Queuing, Application Based QoS, Minimum CIR, CIR (Static and Dynamic), Rate Limiting
Other Features		Built-in Automatic Uplink Power, Frequency and Timing Control (star), Authentication, Antenna Control Interface (OpenAMIP), Multi-Protocol Encapsulation, Low-speed COTM
Carrier Monitor	Web User Interface, RF Tuning Range	70MHz to 6GHz
	RF Channel Bandwidth	Up to 50MHz
	RX Gain Range	0-76 dB, 1dB steps

Mechanical and Environmental	
Size	16.5" H x 7.75" W x 2.5" D (320 in^3)
Weight	8.2 lbs
Operating Temperature	-40°C to +50°C
Other	Tested to MIL-STD-810G shock, vibration, altitude, blowing rain, blowing sand & dust, ice load, humidity, solar and MIL-STD-461F Electromagnetic Interference
Input Voltage	18 - 36 VDC

FRONT

REAR

CHANGING THE SHAPE OF SATCOM

GATR is revolutionizing the ultra-portable SATCOM industry with its inflatable communications terminal. Compared to other deployable rigid dishes of comparable size, GATR's unique shape and designs enable extreme portability, lower cost of ownership, reliability in extreme environments and ease of set up.

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