

Features and Benefits

- **MIL-STD-188-165A Compliant (ARSTRAT); STANAG 4486 (EBEM); and FIPS 140-2 Module (TRANSEC) Compliant**
- **Embedded carrier monitor enabling pointing and acquisition of the satellite signal over a web user interface**
- **Web-based user interface (WUI) for real-time configuration, commissioning, and monitoring of the satellite router**
- **10 MHz reference for LNB and BUC**
- **Configurable DC power (24V, 6A max) on IFL for low-powered BUCs**
- **Ruggedized for the harshest environments with -40ºC to +50ºC and waterproof enclosure (method 506.5, procedure 1)**

GATR 1050TS Modem

Suitable for mobile/transportable communications and packed with features, including built-in pointing assistance with a numerical signal display, the GATR 1050TS is a compact, rugged outdoor L-band satellite modem based on Comtech EF Data modem technology.

Engineered to operate in the harshest environments with an operating range of -40ºC to +50ºC, the waterproof enclosure, easy to understand status LED's and configurable DC power means the GATR 1050TS modem delivers stable communications no matter where your mission takes you.

GATR 1050TS Modem

Specifications

Modem Characteristics			
Network Topology	**SCPC/Point-to-Point**	MIL-STD-188-165A, STANAG 4486 Ed. 3 (EBEM), IESS-315	
Modulation	**FDMA**	BPSK, QPSK, OQPSK, 8PSK, 8-QAM, 16-QAM, 16APSK	
	FEC	Viterbi, Trellis, LDPC, TPC, 165B Turbo, Reed Solomon	
Max Rates	**Data**	37 Mbps	
Spread Spectrum	**Spreading Factor**	1, 2, 4, 8, and 16 (HP-LDPC BPSK 1/2) - Option	
	Max Chip Rate	10 Mcps	
Interfaces			
SatCom	**Tx Out**	N-Type, L-Band 950-2050 MHz, Power: -25 to 0dBm 10 MHz Reference, 24VDC @ 6A	
	Rx In	N-Type 950-2050 MHz; Max Power: +20dBm or +40dBc	
	Rx Out	N-Type 950-2050 MHz 10 MHz Reference, 18 VDC @ 0.65A	
Data and M&C	**LAN**	Two RJ45 Data Ports, One RJ45 Data M&C Port w/ Web User Interface	
	Console	RS-232	
Features and Compatibility			
Features Supported	TCP, UDP, HTTP, FTP, DHCP, QoS, Strict Priority Queuing, Ethernet Flow Control, Radyne HDLC, Comtech HDLC, 570 Managed Switch Mode, Automatic Uplink Power Control, Information Throughput Adaptation (ITA)		
Security	TRANSEC Module	FIPS 140-2, Level 2 Certified	
Modem Compatibility	DMD20, DMD50, DMD2050, DMD2050E, CDM-570A, CDM-570AL, CDM-570, CDM-570L, CDM-625A, CDM-625, SLM-5650A, and MD1366		
Carrier Monitor	Web User Interface, RF Tuning Range	70 Mhz to 6 Ghz	
	RF Channel Bandwidth	Up to 50 MHz	
	RX Gain Range	0-76 dB, 1dB steps	
Mechanical and Environmental			
Size	16.5" H x 10" W x 2.5" D (412 in^3)		
Weight	13.8 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	24 VDC, +/- 1.2V		



Front



Top

CHANGING THE SHAPE OF SATCOM

Cubic 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.

THE APPEARANCE OF U.S. DEPARTMENT OF DEFENSE (DOD) VISUAL INFORMATION DOES NOT IMPLY OR CONSTITUTE DOD ENDORSEMENT.

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