



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 -40°C to +50°C and waterproof enclosure (method 506.5, procedure 1)

GATR 1050TS Modem

Suitable for mobile/portable 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 -40°C to +50°C, 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 +55°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.

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