



MT-2021 Vehicle Satellite Transceiver

Mobile Datacom | MT-2021

Comtech's ruggedized MT-2021 transceiver, using field proven technology, is the key vehicle ground component of our integrated Command and Control (C2) solution that enables full Situational Awareness (SA) with near real-time vehicle tracking, secure mobile text messaging, and in-vehicle mapping. With its advanced design, the MT-2021 enables flexible data rates and instant access to mission critical information across your Area of Operations (AOR).

Features

- Full duplex
- Designed to meet MIL-STD 810F
- Designed to meet MIL-STD 461F
- FCC/ETSI compliant
- Meets MIL-STD 1275B Surge/Spike Power Protection Circuit
- Supports AES128, AES192, AES256

Benefits

- Flexible data rates 650 bps to 128 Kbps
- Secure and reliable two-way messaging
- Operates over multiple L-band satellites worldwide on fully- encrypted packet data network
- Low cost omni-directional antenna
- Supports RHCP and LHCP
- Low probability of intercept
- Low probability of detection
- FIPS 140-2 Level 2 Validated Encryption

Specifications

Physical	
SIZE	Length 8.75" Width 8.75" Height 4"
WEIGHT	6 lbs
Environmental	
OPERATING TEMPERATURE	-40°C to +71°C
OPERATING CONDITIONS	100% relative humidity
ALTITUDE	0-20,000 feet operating and storage
Interface Port	
Supports RS-422 and Ethernet serial data protocols	
Operational	
POWER CONSUMPTION	Transmit = 2A @ 28VDC Receive = 500 mA @ 28VDC
TRANSMIT POWER	<5 W
INPUT VOLTAGE RANGE	10.8VDC to 33VDC
MODULATION	Direct Sequence Spread Spectrum
Communication	
FULL DUPLEX	Yes
DATA PACKET LENGTHS	Up to 1500 Byte in Ethernet mode and up to 100 Byte using RS-422
TRANSMIT FREQUENCY	1610—1660.5 MHz
RECEIVE FREQUENCY	1525—1559 MHz
Data Rates Available	
FORWARD LINK	650 bps, 1.3 Kbps, 2.6 Kbps, 5.2 Kbps, 10.4 Kbps, 20.6 Kbps, 52 Kbps, 128 Kbps
RETURN LINK	650 bps, 1.3 Kbps, 2.6 Kbps, 4.9 Kbps
Antenna	
Internal Omni-Directional	Supports RHCP and LHCP
Operational at Following data/ Elevation Profiles	128 Kbps between 30° and 65° elevation 52 Kbps between 15° and 75° elevation
GPS	
Internal Commercial	
Security	
Supports AES128, AES192, AES256	

About Comtech

Comtech Telecommunications Corp. (Nasdaq: CMTL) designs, develops, produces and markets innovative products, systems and services for advanced communications solutions. The Company sells products to a diverse customer base in the global commercial and government communications markets. For more information visit www.comtechtel.com.

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