

MOBILE NETWORK TERMINAL (MNT)

Universal Connectivity for the Warfighter

Next-Generation Tactical Connectivity in a BFT2 Footprint

Viasat's Mobile Network Terminal (MNT) delivers seamless, multi-domain communications designed for the modern warfighter. Powered by NetAgility™ intelligent mesh software, the MNT dynamically orchestrates and routes data across space, cellular, mesh, and terrestrial networks in real time, optimizing bandwidth for high-definition situational awareness, full-motion video, and lightning-fast command and control (C2).

Engineered to a BFT2 SWaP profile, the MNT combines SDR flexibility, multi-transport connectivity, and NetAgility smart network routing to keep tactical edge forces connected, adaptable, and informed in complex operational environments.

Key Capabilities & Supported Transports

- › Easily reconfigurable software-defined radios adapt to evolving waveform requirements.
- › Intelligent Network Mesh: NetAgility™ provides smart routing and RF management for Silvus, TrellisWare, and Persistent Systems radios.
- › Multi-Domain Connectivity: Integrates GEO/LEO SATCOM (pLEO, Starshield, OneWeb), Wi-Fi, Free Space Optics, and LTE/5G (Public/Private).
- › Tactical Waveform Integration: Native support for BFT, ELERA-C, LoRaWAN, Iridium SBD, and MANETs (TSM, Silvus, gov LPI/LPD).
- › Edge & C2 Ready: Supports containerized applications, rapid Position Location Information (PLI), full-motion video, and planned SDR waveforms (SideLink, LongBow, Link-182).

The Viasat MNT delivers flexible, mission-ready connectivity designed to enhance command and situational awareness. Configurable with up to three SDRs to balance capability and cost, it supports local and over-the-air field reprogramming via NetAgility, along with adaptable RF antenna placements for vehicular platforms.

Network & Waveform Integration:

Planned pLEO options include Starlink, OneWeb, and Kuiper. Support is expanding to include 5G, Iridium, TrellisWare, 5G Sidelink, Longbow, and L182, with BFT2 development underway via the Multinet contract.

Whether operating on sovereign or coalition networks across ground or space segments, Viasat's MNT delivers exceptional operational flexibility.



Mobile Network Terminal (MNT) At-a-Glance

FLEXIBILITY

- › Up to three (3) SDR modules enable multiple operational waveform solutions to be hosted. SDR modules can be reprogrammed to change the waveform solution supported. New waveform porting to the SDR module possible to further enhance capability.
- › NetAgility allows network operations personnel and users to optimize data link coordination – switching links, splitting data, fail-over, and more to adapt for the the mission and environment.

MINIMIZES LOGISTICS TRANSITION FROM THE BFT2 FOOTPRINT

- › MNT chassis footprint and installation points are identical to BFT2 for ready line unit replacement.

MORE SECURITY

- › With embedded, NIST-certified FIPS-140-2 Level 2 AES-256-bit based encryption, the system provides secure connectivity over the satellite channel and ground network infrastructure, protecting sensitive communications. Optional Type-1 Encryption module in development under contract for special security requirements.

CONFIGURATIONS

- › Starlink (LEO), 5G, BFT2 L-band, WiFi and user-selected waveforms (Iridium, TSM, more waveforms possible via the Multinet initiative) rationally preferred BLOS Transport.

Viasat Mobile Network Terminal (MNT)

Specifications

ENVIRONMENTAL & PHYSICAL CHARACTERISTICS		ELECTRICAL	
Temperature Range		Prime Power	20-33 VDC input (28 VDC nominal)
› Operating	-20° to +40°C	Power Consumption	~2.5 VA Peak
› Storage Temp	-55° to +85°C		
Relative Humidity			
100% Condensing			
Shock/Vibration			
MIL-STD 461, 464 and 810 Compliant			
Dimensions (L x W x H)			
› Ground Mobile	8.75 x 8.75 x ~6 in. footprint		
Weight			
› Ground Mobile	~7 lbs.		



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