C4I SATELLITE COMMUNICATIONS
Gilat’s MLT-1000 is a fast-to-deploy, easy-to-operate military modem that meets the most rugged specifications. Setting a new standard for mission flexibility, MLT-1000 delivers high-speed satellite communications for on-the-move, stationary, point-to-point (SCPC), and point-to-multipoint (managed MCPC) operations.

BATTLE PROVEN CONNECTIVITY
MLT-1000 provides secure, highly-reliable broadband C4I satellite communications that ensure battlefield information superiority for warfighters. MLT-1000’s advanced VSAT technologies maximize link availability, optimize bandwidth usage, and enable high throughput in the most challenging field and weather conditions. With embedded QoS and transparent acceleration technologies, MLT-1000 provides a single integrated platform for data, voice, and video applications over multiple network topologies.

THE TACTICAL WARFIGHTER’S MODEM
MLT-1000 enables military personnel to run the full range of mission-critical applications, protocols and tasks simultaneously on the same modem. Built to the toughest military specifications, MLT-1000 delivers effortless operation anytime, anywhere. In addition, MLT-1000 requires minimal setup by non-technical personnel for fast satellite communications warfighters can count on.
For cost efficient, secure, seamless connectivity across land, sea, and air on C, X, Ku, and Ka bands, MLT-1000 always accomplishes the mission.

BENEFITS
- High sensitivity enables use of small antennas and BUCs, higher MODCODs and reduce space segment
- Adaptive Spreading, Coding and Modulation (ASCM) improves availability - essential factor for SOTM
- Integrated Transmission Security (optional)
- Simple deployment shortens time-to-operation
- Variety of applications, protocols, tasks and expansion slot creates a compact ‘system in a box’
- Military specifications for tough conditions
- Multiple topologies - mesh, star (hub spoke), or hybrid
## Technical Specifications

### Data Communications
- **Dynamic routing mode or bridge mode**
- **TCP acceleration**
- **VLAN support**
- **QoS**
- **Encryption - AES 256 (optional)**

### Transmit Port
- **Frequency range:** 950 - 2150 MHz
- **Tuning step:** 1 kHz
- **Impedance:** 50 W
- **Connector type:** N-Type
- **Return loss:** better than -10 dB
- **Tx power:** 0 to -30 dBm, 0.1 dB resolution
- **Automatic uplink power control**
- **Reference:** 10 MHz, switchable
- **Communication:** FSK
- **BUC Power:** 24VDC, 70W, switchable (optional)

### Receive Port
- **Frequency range:** 950 - 2150 MHz
- **Tuning step:** 1 kHz
- **Impedance:** 50 W
- **Connector type:** N-Type
- **Return loss:** better than -10 dB
- **Max input level:** -10 dBm
- **Input noise level:**
  - 85 dBm/Hz to 115 dBm/Hz
- **Noise figure (at maximal gain):** 8 dB

### Power
- **Operating voltage:** 10 to 32VDC
- **Power:** 25W

### Environmental and Standards
- **Operating temperature:** -40°C to +60°C
- **Vehicle mounted or rack mounted enclosure**
- **MIL-STD-810G:** environmental requirements
- **MIL-STD-461F:** electromagnetic requirements
- **MIL-STD-1275:** DC characteristics

### Mechanical
- **Dimensions:** 1.17H x 13.4W x 11.6D (4.36 x 34 x 29.6 cm), 1 rack unit
- **Weight:** 5.6 kg (12.3 lbs)