

Product Brochure

SatTrooper

Fully Integrated and Lightweight Manpack



The net-centric battlefield has increased the importance of quick-deploy satcom-on-the-pause and on-the-move. Governments and militaries, already attuned to the advantages of fixed and mobile satellite services, recognize the critical need to access these services where and when needed, however challenging the conditions may be.

Gilat's lightweight, fast-to-deploy SatTrooper manpack tactical satcom terminal enables government agents and warfighters to accomplish their missions, offering rapid connectivity to data, voice and telephony, even under the harshest conditions. The small-size dish antenna can be set up within minutes, with automatic pointing, and does not require any special tools for assembly.

The SatTrooper is available in Ka or Ku band, and can operate as a terminal in a point-to-multipoint network or as a point-to-point link

Portable, Reliable, Capable

SatTrooper is highly integrated and ergonomic and is designed for maximum comfort and resilience. The antenna, built-in modem, BUC and LNB are incorporated in one ruggedized enclosure, and can withstand extreme environmental conditions. Low power consumption enables long hours of battery operation. The whole kit is easily packed into an ergonomic backpack that is easy to carry anywhere.

The SatTrooper embedded Gilat MLT-1000 modem supports reliable data, voice and video transmissions, with high availability in secure mode and excellent performance in extremely low SNR. The optional remote control unit (RCU) enables operation and configuration from a safe location or shelter.

Benefits

- Fully integrated, compact manpack: antenna, modem, ACU and BUC
- Lightweight: only 13.5 Kg
- Long-lasting battery operation: more than 4 hours
- Automatic auto pointing
- Quick and easy setup: less than 3 minutes
- Ka or Ku band
- Remote control unit: safe operation



SatTrooper

SatTrooper gilat.com | info@gilat.com

Technical Specifications

Mechanical

Antenna Size: ST1500Ku: 60cm ST2000Ka: 60cm

Electrical

Frequencies Tx:

ST1500Ku: 13.75–14.5 GHz **ST2000Ka:** 29–31 GHz* **Frequencies Rx:**

ST1500Ku: 10.7–12.75 GHz **ST2000Ka:** 19.2–21.2 GHz*

Polarization: ST1500Ku: Linear ST2000Ka: Circular

Tx Gain:

ST1500Ku: 36 dBi **ST2000Ka:** 43.5 dBi

G/T:

ST1500Ku: 14.9 dB/K **ST2000Ka:** 17 dB/K

EIRP:

ST1500Ku: 42 dBW

ST2000Ka: 49 dBW **Elevation:** 10-75 deg.

Azimuth: 270 deg. continuous

Pointing:

Elevation over Azimuth,

Automatic

Skew/Polarization: Manual

Data rates:Over 2Mbps

(depends on link budget) **Modulations:** BPSK, QPSK, 8PSK,

6QAM

Spread Spectrum:Spreading factor 1-8

SNR: -13 to +13 dB

Coding:

27 LDPC codes. Rates 1/4, 1/3, 2/5,

1/2, 2/3, 3/4, 5/6, 8/9

Typical Eb/No for BER=10-8:

0.8dB (BPSK 1/2 LDPC 12k block length)

Data Com & Management

Mode: Dynamic routing or bridge

Protocols:

TCP acceleration, QoS, VLAN

Management:

Web manager and TotalNMS, when part of the GLT network

Size

Dimensions: 76Lx68Wx80H cm

Weight: 13.5Kg

14.9Kg(open unit), 19.9Kg(Bag).

Environmental

Temperature: -20 to +60 deg. C

Wind: 45 Km/h

Environment: Mil Std 810 G **Electromagnetics:** Mil Std 461 F

MIL-STD-1275: DC characteristics

Power and Interface

Voltage: 10-32 VDC **Consumption:** 40 W

Data:

Ethernet 10/100/1000 Base-T **Remote Control Unit (optional):** Mimics the ST front panel: LEDs, LCD and Control switches



^{*} Other frequencies in Ka band are available upon request