Product Brochure

SatTrooper 2

75 cm Ku- or Ka-Band Auto-Pointing Flyaway Terminal

Operational Advantage

Built for fast-moving field operations, the SatTrooper 2/75 cm delivers reliable, mission-critical satellite connectivity in a lightweight, rugged and fully automatic terminal. Its compact design, one-person deployment and rapid automatic acquisition reduce setup time and operator workload, helping teams establish dependable communications wherever the mission takes them.

- **Faster time to network.** One-button automatic acquisition in less than two minutes minimizes setup time and operator workload.
- **Simple one-person deployment.** Tool-less assembly, integrated GPS and software-controlled pointing streamline field operation.
- **Dependable RF performance.** The 75 cm carbon-fiber ring-focus architecture delivers high gain and low side-lobe performance in a compact flyaway terminal.
- **Network freedom.** OpenAMIP-based control supports Gilat modems and compatible third-party external modems.
- **Continuity under pressure.** Manual control provides an emergency operating mode, while intelligent auto-reacquisition restores pointing after signal loss.
- **Efficient field operation.** System consumption is less than 60 W, excluding the BUC and modem.
- **Power autonomy.** Optional tactical batteries and a hot-swap junction box support uninterrupted operation during battery replacement.

Mission Applications

- Tactical field communications
- Military and government deployments
- Emergency response
- Rapidly deployable command posts

Mission-Ready by Design

- **Two optimized RF models.** Choose a dedicated Ku-band model for linear polarization or a dedicated Ka-band model for circular polarization. The bands are offered in separate, non-switchable configurations.
- **Flexible acquisition.** Supports DVB-S / DVB-S2X acquisition with an optional beacon receiver, plus OpenAMIP modem-assisted pointing.
- **Precise multi-axis control.** Motorized azimuth and elevation control, with motorized Ku-band polarization adjustment, supports pointing accuracy of 0.2 degrees or better.
- **Compact integration choices.** Deploy with an external modem or select an integrated Gilat modem card for a streamlined all-in-one terminal.
- **Field transport options.** A rugged single-case transport configuration supports rapid deployment and protected handling in the field.
- **Broad RF configuration.** F-Type or N-Type RF connectors and a wide range of BUC power options help tailor the terminal to the network design.

From Case to Connectivity

A compact, field-deployable system combining automatic pointing, intelligent control and flexible modem integration.



SatTrooper 2/75 cm
Ku and Ka Band



Manpack



Hardcase

Technical Specifications

Dedicated RF Model Options

RF Parameter	Ku-Band Model	Ka-Band Model
Configuration	Dedicated Ku-band; not band-switchable	Dedicated Ka-band; not band-switchable
Reflector	75 cm	75 cm
Polarization	Linear, motorized	Circular, manual
Tx frequency range	13.75–14.50 GHz	27.5–31 GHz
Rx frequency range	10.70–12.75 GHz	17.7–21.2 GHz
Tx gain	38.5 dBi @ 14.15 GHz	45.0 dBi @ 29 GHz
Rx gain	36.9 dBi @ 12.45 GHz	41.5 dBi @ 19.7 GHz

Antenna & Control

Feed type: Ring-focus
Reflector material: Carbon fiber
System weight:
Ku: 11.7 kg; Ka: 10.7 kg, excluding BUC and modem
Acquisition time:
Less than 2 minutes
Pointing accuracy:
0.2 degrees or better
Azimuth travel: 0°–360° degrees
Elevation travel: 0°–90° degrees
Polarization travel:
0°–180° degrees (Ku-Band)
Mechanical Switch – Circular (Ka-Band)

Tracking & Control:

Satellite Acquisition Time : < 2 minutes (Automatic)
Pointing Accuracy: ≤ 0.2°
ACU Protocols / Modes:
OpenAMIP, DVB-S / DVB-S2X receiver, optional Beacon Receiver

Power & Electrical

Consumption:
< 60 W maximum (excluding BUC and modem)
Supply: 100–240 VAC, 50/60 Hz
Field power option:
Optional hot-swappable tactical battery set with continuous power junction box

Environmental & Ruggedness

Operating wind:
40 km/h unanchored; 70 km/h anchored
Operating temperature:
–20° C to +60° C
Storage temperature:
–30° C to +70° C
Ingress protection:
IP66 dust-tight & withstands high-pressure water jets)
Humidity:
0–100% RH, condensing
Mil-STD: MIL-STD810H

Transport

Hardcase:
Rugged hardcase; 73 x 55 x 44 cm
Hardcase total weight: 24.5 kg

Backpack:
Hard shell structured pack providing impact protection, weight 8 kg
Backpack dimensions:
55 x 95 x 37 cm
Backpack total weight:
20 kg, excluding modem, BUC and battery set
Ku-band packed gross weight: 27 kg
Ka-band packed gross weight: 26 kg

Configuration Options

RF connectors:
F-Type or N-Type
Acquisition:
Optional beacon receiver
Ruggedization:
MIL-STD 810H configuration option (Full Compliance)
Modem:
Integrated Gilat modem card or compatible external modem

Note: Ku-band and Ka-band are supplied as separate dedicated SatTrooper 2 models; the operating band is not field-switchable.
Specifications are subject to change without notice.

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