

FoldSat

The FoldSat is a person-portable, self-aligning Electronically Steered Antenna (ESA) terminal that delivers mission-critical communications anywhere on the globe. Optimized for the OneWeb Ku-Band LEO constellation, its low-profile, foldable design is a game-changer for military and emergency response operations beyond the reach of traditional networks. The lightweight, battery-operable FoldSat provides resilient high-speed data, video, and voice services, engineered in full compliance with MIL-STD 810H and 461G for performance under the toughest battlefield conditions.



High-Throughput Connectivity: Delivers speeds up to 195 Mbps download and 32 Mbps upload.

Rapid Deployment: Foldable, 1-man portable design with a self-aligning system for immediate operation.

Rugged & Resilient: Designed and tested to MIL-STD 810H for environmental endurance and MIL-STD 461G for EMI/EMC.

Power Versatility: Operates on mains power, vehicle DC, solar, or external off-the-shelf (OTS) batteries for extended missions.

GPS-Denied Operation: Features an external GNSS input to ensure functionality in navigation-compromised environments.

Integrated Local Network: Built-in Wi-Fi 6 provides secure, high-performance wireless access for field teams.

FoldSat Technical Specifications

Physical	Dimensions (Folded)	452 L x 374 W x 114 H mm
	Dimensions (Unfolded)	855 L x 374 W x 57 H mm
	Terminal Weight	11.8 kg
	Full Kit Weight	17.5 kg (Includes AC/DC, cables, tripod, batteries)
	Ingress Protection	IP65
	Color	Dark Green
Performance & Power	Throughput (DL/UL)	Up to 195 Mbps / 32 Mbps*
	Power Consumption	170W (peak)
	Power Sources	Mains, battery, solar, vehicle battery
	Battery Capacity	294Wh
	Battery Autonomy	Approximately 90 minutes per battery set
Environmental & Compliance	Operating Temperature	-20°C to +55°C
	Environmental Standard	MIL-STD 810H
	EMI/EMC Standard	MIL-STD 461G compliant
Interfaces	User Data Port	1 × 1GbE RJ45
	Wireless	Wi-Fi 6 (802.11ax)
	Visual Status	4 x Night Vision Goggle (NVG) compatible LEDs (optional)
Standard & Optional Package	Standard Kit	FoldSat Terminal, Military-Grade AC/DC Unit, Tripod, Cable Set
	Optional Extras	Hard-Shell Transit Case, Custom Backpack Carrier, Additional Battery Kits

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