

Norsat[®] Ultra-Portable Manpackable Terminal[™]

Ultra-portable. Easy-to-use. Rugged. Backpackable. Fully Motorized. Auto Acquire.

The new Norsat Ultra-Portable Manpackable Terminal (UPT) is the latest addition to Norsat's family of portable satellite terminals. It is a lightweight, compact, rapidly deployable, complete portable satellite terminal with broadband capabilities of up to 8.448 Mbps (up to 52 Mbps optional).

Representing a breakthrough in terms of technology and packaging, the Norsat UPT fits into 2 standard MOLLE backpacks each weighing less than 46lbs. With its simple setup and alignment procedure, personnel with minimal training can have the Norsat UPT up and transmitting in less than 10 minutes.

The Norsat Advantage

The Norsat UPT combines manpackable, high-powered communications capability with a highly flexible platform. The system can operate in Ku, Ka and X-bands. The complete solution includes a carbon fiber segmented antenna, feed assembly, LNB, BUC, azimuth/elevation superstructure, built-in inclinometer, compass, GPS, and baseband unit with modem, spectrum analyzer, DC-DC converter, shock protected chassis and jacket, system control software with user friendly GUI, and 2 transit cases. The Norsat UPT is smaller, smarter, easy to use and cost effective.

Rapid, Simple, Reliable Alignment, Setup, and Operation

Only the Norsat UPT provides a quick assembly antenna platform that can be setup in minutes without tools. It comes complete with a compass, inclinometer and GPS to aid alignment. The sophisticated GUI software makes antenna alignment easy for even novice users through its alignment wizard, beacon detector, and built-in spectrum analyzer. To further simplify operation in the field, a full range of settings can be pre-configured in user-selectable profiles before the Norsat UPT is sent out on assignment. The Norsat UPT is truly changing portable satellite communications by eliminating the need to include a signals engineer on each assignment.

Versatile Applications

The Norsat UPT is ideal for field units in remote and/or hostile environments where traditional communications infrastructure is insufficient, damaged or non-existent. Examples include:

- Military and defence field deployments
- Emergency field operations

Flexible Options

Antenna - 1 m

RF/Antenna - Ku-Band (inquire about Ka and X-Band Versions)

RF Power - 10 W Ku-Band/ 10 W X-Band/ 5W Ka-Band

Modems -Paradise Datacom Evolution P3000 with ovenized oscillator

Tools - Mobile Data Wireless Display



Key Benefits

Flexible - Multiple bands and power levels

Ultra Portable - Complete terminal fits into two backpacks

Easy-to-Use - Setup and operation that anyone can learn. Graphical user interface is easy to navigate

Rugged - Designed for harsh environments

Shock Mounted Baseband System
Designed for tough assignments

Extremely Stable Structure- Legs have been designed to stand up on uneven surfaces

Proprietary Humidity Sensor Technology- Designed for environments where drastic climate changes can be expected
Environmentally Controlled Enclosure utilizing heater control and pressurized air control system

Secure- Supports external encryption devices



Norsat® Ultra-Portable Manpackable Terminal (5200 Ku-10W-P3K)

RF/Antenna

Transmit Freq.	13.75 - 14.5 GHz Ka-band kit (Optional) X-band kit (Optional)
Receive Freq.	10.95-12.75 GHz
RF Power	10 W
EIRP (1dB C.P.)	50 dBW
G/T (clear sky)	19.4 dB/K (NTsky 50K)
Antenna	1m carbon fiber, segmented (6)
Antenna Tx Gain	41.3 dBi
Antenna Rx Gain	39.8 dBi
Antenna Platform	Motorized Elevation over Azimuth (Optional) Mounted on Baseband Unit, Auto acquire
Polarization	Linear Cross-Pol - Motorized
Elevation Adj.	10-90 degrees
Azimuth Adj.	+/- 190 degrees

Baseband

RF Interfaces	Tx-Out 950-1750 MHz Rx-In 950-1750 MHz
Data Interface	10/100 Base-T Ethernet
Modem Type	Paradise Datacom Evolution P3000 with ovenized oscillator iDirect and others available (upon request)
Network Topology	SCPC
Modulation	QPSK, BPSK, OQPSK
Data Rates	9.6 Kbps to 8.448 Mbps
Error Control	Viterbi FEC, Rates. 1/2, 3/4 and 7/8 with k=7 Intelsat Reed-Solomon Outer Codec per IESS 308 Turbo FEC (Optional)
Physical	15.8"x10.5"x24.5" (WxHxD), 39 lbs

Controller (Laptop)Interconnect

Cable	10/100 Base-T Ethernet RJ-45, CAT5
Physical	Up to 160 feet

Certifications

Intelsat	Pending
FCC ID	Pending
FCC Certifications	Pending

System Control and Software

Software	Master Control Application Satellite Almanac Antenna Alignment Wizard GPS Interface Beacon/Carrier Detector Spectrum Analyzer Mobile Data Wireless Display (Optional) Service Control Application Status, Alarms and Logging Help Files
Operating System	Microsoft Windows® XP Professional
Screen	10.4" Touchscreen XGA LCD, TFT sunlight-readable (Optional)
Mobile Display	Remote system control and monitoring (Optional)

Power

Prime Power	24 V DC
Optional AC	110/220 VAC, 60 Hz Stable to 90 VAC
Consumption	400W DC/480W AC

Environmental

Operating Temp.	-30 to +50 °C
Rainfall	4 inches/h
Wind Speed	30 mph gusting to 45 mph
Humidity	100% condensing
Baseband Chassis	Environmentally Controlled Enclosure utilizing heater control and pressurized air control system Intelligent Power Preservation mode of operation Shock mounted inside Baseband frame

Shipping/Transport Cases

Baseband	Single case Packaged 16"x11"x25" (WxHxD), 46 lbs
RF/ Antenna	Single Case Packaged 16"x11"x25" (WxHxD), 46 lbs



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