

# HM500 ManPack Terminal

The Hughes HM500 ManPack Terminal is a lightweight, multiband man-pack satellite terminal that provides forward-deployed teams a highly portable and secure communications solution. The self-contained terminal is transported in a compact case and includes integrated IP networking to reduce the need for transporting additional baseband equipment. Specifically, the HM500 is designed for users seeking reliable communications on multiple global satellite systems, at lower operating costs and higher bandwidth than competing solutions.

The simplified setup and user interface is an ideal solution for end users requiring rapid and reliable connectivity. The HM500 is optimized for easy use with preconfigured settings and can operate over Ku-, Ka-, Mil Ka-, and X-band frequencies. This all-in-one comms solution will bring improved capabilities to a number of global applications, such as disaster relief, search and rescue, and military operations.



Visit [defense.hughes.com](http://defense.hughes.com)  
or call 301-428-2762 for more details.

## Technical Specifications

Transport Size:	One hard case; each side $\leq$ 45 inches
Transport Weight:	<31 lbs (excluding batteries)
External Power:	Multiple options available
Available Operational Frequency Band:	Ku, Mil Ka, Ka, X
Antenna:	90 cm parabolic reflector
Polarization:	Horizontal or vertical; adjustable over $\pm$ 90 degrees
G/T:	16.8
EIRP:	48.8
Operating Temp.:	-32° C – +60° C
Storage Temp.:	-50° C – +70° C
Humidity (Ops):	0–100% non-condensing
Water/Dust:	IP65
Salt Fog:	MIL-STD-810
IF Frequency:	
	TX: 950 to 2050 MHz
	RX: 950 to 2150 MHz
DVB-S2 Modulation:	QPSK, 8PSK, 16APSK Adaptive Modulation
DVB-S2 Rate:	1–45 Mbps
Spreading:	1, 2, 4, and 8
TX Output Power:	0 to -35 dBm
RX Input Power:	-30 dBm to -95 dBm

**Technical and Support Services:** Hughes offers the following services for both defense and commercial markets for the HM series of Satellite communications products. These include the HM100 Ground Modem, the HM200 Air Modem, the HM400 Air Modem and the HM500 Portable Terminal. The following services are offered on either a fixed price or time and material basis using commercial labor rates:

- Complete system level acquisition and integration of adjunct subsystems that interface with the HM series products described above. These include antennas, routers, video compression, and VoIP audio devices.
- System Level Engineering analysis and support including review of satellite constellations, link budgets, antenna design overview, modem and system level interfaces, and platform integration support.
- On-site participation in end user engineering, program and status reviews.
- In-country support of systems integration and operation.
- Factory based or off-site training courses.
- User documentation development including foreign language translation.
- Satellite bandwidth acquisition for test or operation.
- Satellite managed services, backhaul and internet access for system operation.
- Extended warranty options.

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