

TM-X850MP X-Band Manpack Satellite Terminal

Tampa Microwave's TM-X850MP was specifically designed for manpack applications where toughness matters. Our design philosophy was simple: Make the terminal lightweight and simple to use by dismounted troops operating in inhospitable terrain.



Key Terminal Features

- **High Performance**
 - **G/T = 8.4 dB/K (20 deg elevation)**
 - **EIRP (P1dB) = 41 dBw**
 - **6 hour battery at 10% Duty Cycle**
- **Light weight construction - 17 lbs**
- **Passive cooling - No Fans**
- **Modem Agnostic, L-Band IF**
- **Separate Modem and RF Modules**
 - **Field change modem**
 - **RF bands (X, Ku, Ka)**
- **18" Carbon fiber antenna,**
 - **6 segment**
 - **Bayonet mount (no tools)**
- **Internal GPS**
- **MIL-STD-810F**
- **-30 to +60C**

Technical Performance Characteristics

Terminal	Specification
Size Rucksack Transit Case	2160 in ³ 2772 in ³
Weight (RF / Modem / Antenna)	17 lbs
Power Input	110 – 220VAC, 50-60Hz Two (2) BA-5590 Batteries, (5.8 hrs @ 10% Duty Cycle) 10 – 36 VDC External Battery
Operating Frequency (X Band)	Uplink: 7.90 – 8.40 GHz Downlink: 7.25 – 7.75 GHz
Data Rate (99.9% Confidence)	1.544 Mbps with 5.6 dB Margin single rain fade
Operating Temperature Range	-30 to + 60 deg C
G/T	8.4 dB/K @ 20 deg elevation angle
EIRP	41 dBW
Modem	
iDirect	e850MP card in ruggedized enclosure
Hughes	HX200 card in ruggedized enclosure
Ancillary Equipment	
UPS and Battery Box	11" x 9.2" x 6"
Transit Case	22" x 14" x 9"
GPS Antenna	External Antenna with SMA Input on Modem
Network Interfaces	2 RJ45 Ethernet Ports
Environmental Temperature Humidity Vibration Salt Fog Sand and Dust	MIL-STD-810F -30 to +60C 95 %, Condensing Method 514.4 Method 509.4 Method 5010.4