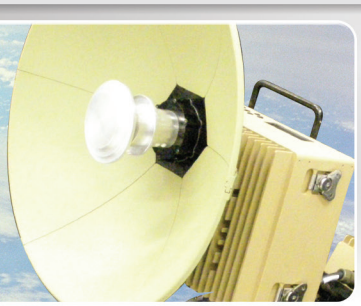
TAMPA MICROWAVE™

IMAGINE. INNOVATE. EXECUTE.

- SATELLITE TERMINALS
- TEST EQUIPMENT
- COMPONENTS
- CUSTOM ENGINEERING

TM-KU850MP KU-BAND MANPACK SATELLITE TERMINAL



Tampa Microwave's TM-Ku850MP was specifically designed from the ground up for the dismounted soldier who will operate in inhospitable territory, who may jump and then carry the manpack in his ruck sack.

Key Terminal Features

- **No Fans** – Passively cooled
- **Auto Assist Pointing** – Simple front panel display instructions assist satellite acquisition
- **High Performance** – Low loss
  - **G/T (20 deg elevation)**
    - 65 cm Antenna = 14.2 dB/K
    - 90 cm Antenna = 17.1 dB/K
  - **EIRP (P1dB)**
    - 65 cm Antenna = 46.3 dBW (Basic)
    - 90 cm Antenna = 49.3 dBW (Option)
- **System weight = 27 lbs. (65 cm)**
  = 30 lbs. (90 cm)
- **Extremely field configurable**
  - No tools required
  - X, Ku or Ka transceivers
  - Quick-release 65 or 90cm antenna
- **Internal GPS**
- **NVG Compatible**
- **MIL-STD-810F tested**
- **Operational temp -20 to +55C**

Integrated iDirect Modem

Key Discriminators:

High Performance
Uplink 1-2 Mbps and Downlink 4-6 Mbps

Battery Savings Mode
Transmitter Keyline control more than doubles battery operation time

Multi-Band
Quick change between X and Ku bands (10 lbs. for 2nd receiver/transmitter)

Simple to Operate
Auto-assist display provides "BGAN like" setup (that an unskilled operator can use to point at the satellite)

MIL-SPEC Reliability
Purposely built for tactical environment (MIL-STD-810F)

Lightweight
Monolithic RF design requires no cooling fans providing smallest, lightest, most reliable terminal available

In Production
In production June 2011

Contracts Available
Call us for options

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Technical Performance Characteristics

Terminal	Specification
Modem & Transceiver Backpack Carrying Case Hardened Case	12" x 8" x 4" W x D x H 20" x 12" x 7" 21.7" x 14.1 x 8.9"
Weight (less case)	17 lbs. Mast-mounted 27 lbs. Total System (65 cm) 30 lbs. Total System (90 cm)
Power Input	85 – 265 VAC, 47-440Hz 10 – 36 VDC External battery (Not Included)
Battery Run-time	70 min using one (1) BB-2590 Greater than 2 hours when using keyline feature
Operating Frequency (Ku Band)	Uplink: 13.75 – 14.5 GHz Downlink: 10.95 – 12.75 GHz
Operating Temperature Range	-20 to +55 deg C
G/T - (20 deg elevation angle)	65 cm Antenna - 14.2 dB/K 90 cm Antenna - 17.1 dB/K
EIRP - P1dB	65 cm Antenna - 46.3 dBw 90 cm Antenna - 49.3 dBw
Modem	
iDirect	e850MP board integrated
Any external L-Band modem	Using external L-Band connections
GPS Antenna	Remote-able GPS antenna for obstructed use
Interfaces	1 Mil-Std, MS-3112, 10-pin Power Connector 2 RJ45 Ethernet Ports 1 RJ45 Console Port 1 L-Band Monitor Port L-Band RF Connections for External Modem
Environmental Temperature Humidity Vibration Salt Fog Sand and Dust Shock Blowing Rain	MIL-STD-810F -20 to +55C 95 %, Condensing Method 514.4 Method 509.4 Method 510.4 Method 516.5 Procedure II Method 506.4

Packaging Options

Option A:
Roll-away hard case, FAA overhead compliant (Black).

Option B:
Roll-away soft case, with backstraps, FAA overhead compliant (Black).

Option C:
Small rucksack, FAA overhead compliant (Black, Desert Tan, and OD green).

Option D:
Airline checkable and shipping hard case, for manpack and rucksack (Black, Desert Tan, and OD green).

Option E:
Mast Mount, replaces Tri-pod for fixed installation.

Option F:
65cm parabolic reflector and feed. Replaces the 45cm antenna.

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3/2011