



System Parameters	45cm Antenna	65cm Antenna	95cm Antenna
EIRP X band P1dB	41.3 dBW @ 8150 MHz	43.6 dBW @ 8150 MHz	47.2 dBW @ 8150 MHz
EIRP Ku band P1dB	Ku not available	49.0 dBW @14.125GHz	52.2 dBW @14.125GHz
EIRP Ka band P1dB	Ka not available	51.4 dBW	Ka not available
G/T X-Band (30° elevation)	8.9dB/K @7500 MHz	11.4dB/K @ 7500 MHz	15.2 dB/K @ 7500 MHz
G/T Ku Band	Ku not available	14.9 dB/K @ 11.35 GHz	18 dB/K @ 11.35 GHz
G/T Ka Band	Ka not available	16.4 dB/K	Ka not available
System weight	25 lbs (11.3kg)	27lbs (12.2kg)	30lbs (13.6kg)

Environmental	Value	Environmental	Value
Humidity	95 %, Condensing	Vibration	Method 514.4
Salt Fog	Method 509.4	Sand and Dust	Method 510.4
Blowing Rain	Method 506.4	N/A	N/A
Power input	85 – 265 VAC, 47-400Hz	10 – 36 VDC	Solar panel option available

Receive Parameter	X-Band	Ku-Band	Ka-Band
RX LO	7.25 to 7.75 GHz 6.3GHz	10.95 -11.75 GHz 10.0 GHz	20.2 – 21.2 GHz
RX 2 LO	N/A	11.75 - 12.75 GHz 10.8 GHz	19.2 – 20.2 GHz
Rx 1 IF-frequency	950 to 1450 MHz	950 to 1750 MHz	1-2 GHz
Rx 2 IF-frequency	N/A	950 to 1950 MHz	1-2 GHz

Receive/Transmit	X-Band	Ku-Band	Ka-Band
Polarization	RCP/LCP selectable	Linear V/H Cross/Co pole	RCP/LCP selectable
Certifications	WGS 12-221		Pending

Transmit Parameter	X-Band	Ku-Band	Ka-Band
TX LO	7.9 to 8.4 GHz 6.95 GHz	13.75 to 14.5 GHz 12.8 GHz	30 – 31 GHz
TX 2 LO	N/A	N/A	29 – 30 GHz

MANPACK

SATELLITE TERMINALS

MODELS 45.65.95



12160 RADE TRACK RD.
TAMPA, FL 33626

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Key Discriminators:

Lightweight . Simple to Operate . Multi-Band . BatterySaving Mode . MIL-SPEC Reliability

TAMPA MICROWAVE'S LINE OF MANPACK TERMINALS ARE SPECIFICALLY DESIGNED FOR THE NEEDS OF THE DISMOUNTED TROOP OR FIRST RESPONDER. THEY ARE BUILT TO BE AIR-DROPPED, JUMPED OR CARRIED, AND THEN OPERATED IN THE WORLD'S MOST AUSTERE ENVIRONMENTS FOR EXTENDED PERIODS. THE MANPACK TERMINAL ALSO OFFERS SEVERAL OPERATIONAL AND LOGISTICAL ADVANTAGES OVER ITS COMPETITION:

- * COMPACT DESIGN AND PACKAGING FACILITATES ONE MAN SETUP AND OPERATION
- * BACKPACK FITS IN AIRLINE OVERHEAD COMPARTMENT; HARD CASE IS AIRLINE CHECKABLE
- * AUTO-ASSIST DISPLAY PROVIDES "BGAN LIKE" SETUP IN LESS THAN 10 MINUTES BY MINIMALLY TRAINED PERSONNEL
- * R/T, MODEM AND POWER SUPPLY MODULES ARE COMMON TO THE ENTIRE TAMPA MICROWAVE FAMILY OF TERMINALS, (45CM - 1.3M) AND CAN BE INTERCHANGED W/ NO TOOLS
- * INTERNAL GPS

- * NO FANS OR FILTERS - HIGH RELIABILITY DESIGN THAT ELIMINATES COOLING FANS AND FILTER MAINTENANCE
- * CENTER-FED ANTENNA ENABLES SIMPLE FREQUENCY/FEED SWAP AS WELL AS ROBUST SATELLITE CONNECTIVITY DUE TO SUPERIOR WIND STABILITY
- * OPTIONAL DUAL BB 2590 BATTERY & CHARGER AVAILABLE
- * TRANSMITTER KEYLINE CONTROL FEATURE MORE THAN DOUBLES BATTERY OPERATION TIME
- * QUICK CHANGE BETWEEN X, KU (CO-POL & CROSS-POL) AND KA BANDS (BOTH GLOBAL EXPRESS & WGS FREQUENCIES SUPPORTED) WITH NO TOOLS IN THE SMALLEST, LIGHTEST, MOST RELIABLE TERMINAL AVAILABLE
- * CHOICE OF INTEGRATED iDIRECT EVOLUTION®, LINKWAY S2®, OR HUGHES HX280® MODEMS; OPTIONAL ACQUISITION WIZARD FOR USE WITH ANY EXTERNAL L-BAND MODEM.
- * MULTI-ENCLAVE NETWORKING DEVICES WITH EMBEDDED CISCO® ROUTING
- * PURPOSE-BUILT FOR TACTICAL ENVIRONMENTS (MILSTD - 810G TESTED)

Extreme Portability . High Bandwidth . Interchangeable Components

Shown to the right: ManPack Terminal comes with two carrying options: a soft backpack (FAA overhead compliant) and an airline checkable/shippable hard case. Color options on back of brochure.



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