Ultra .85
Dual Maritime

Tactical Communications | **Ultra .85 Dual Maritime**

Ultra is the first dual-use VSAT terminal that has high speed, hyper-accurate auto-acquire and tracking technology using differential GPS. Lightweight, IP 65 compliant and capable to operate in 30 mph winds Ultra is airline transportable, easily set up and fully operational by one person without the use of tools in under ten minutes in ground mode.

One system serves as a maritime or fly away solution providing war fighters with the right terminal for any mission. Change between modes in less than 15 minutes, Band changes are completed in less than 10 minutes in ground or maritime mode and a .85 terminal can be converted to a 1.3Meter terminal in less than 10 minutes.

Ultra is capable of operating in X-, Ku-, Ka-Mil, and commercial Ka-Band, and can be configured for preset blockage areas as well as on the fly blockages such as bridges while at sea. With a redundant antenna, and shared modem passing RF over fiber the secondary terminal will complete the traffic handover with as little as one byte loss. Also Ultra has a proven ability to pass modem traffic via MANET technology to backside services.

With design features that include an embedded modem, IP I/O data port, embedded Web based GUI, and ability to operate around the globe, Ultra is the most flexible communication terminal in the modern warfighters arsenal. Furthermore, Ultra is field-proven across a variety of DoD organizations with different skills and missions, including the U.S. Army, U.S. Joint Forces and Combined Forces, U.S. Air Force and U.S. Navy.

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Specifications

Weight (lbs)	250
Cases	3
Setup	2 Person
Setup Time	45 Minutes
Pointing Accuracy	+/- .5 degrees
Satellite Lock-up	<2 minutes
Fully Operational	60 Minutes

Parts Numbers

Dual Maritime System	40-3283-01
X-Band Kit	40-3286-01
Ku-Band Kit	40-3287-01
Ka-Band Kit	40-3288-01
Unit Training	UL-TRAIN
Fiber	40-3285-01
Radome (Fabric)	40-3284-01
Spares Kit	40-3289-01

Mid-Frequency Performance				
Parameter	**X-Band**	**Ku-Band**	**Ka-Com**	**Ka-Mil**
Frequency Band, Rx	7.25 - 7.75 GHz	10.95 - 12.75 GHz	19.2 - 20.2 GHz	20.2 - 21.2 GHz
Frequency Band, Tx	7.90 - 8.40 GHz	13.75 - 14.50 GHz	29.0 - 30.0 GHz	30.0 - 31.0 GHz
LNB Noise Temperature	52.3 K	60 K	120 K	120 K
G/T at 10° EL, 25°C	13.0 dB/K	17.4 dB/K	18.4 dB/K	18.8 dB/K
G/T at 20° EL, 25°C	13.3 dB/K	17.7 dB/K	18.8 dB/K	19.1 dB/K
G/T at 30° EL, 25°C	13.4 dB/K	17.9 dB/K	18.9 dB/K	19.4 dB/K
EIRP at Saturation Power	48.4 dBW	53.7 dBW	58.6 dBW	59.0 dBW
Gain at Rx	34.0 dBi	38.2 dBi	42.3 dBi	42.8 dBi
Gain at Tx	34.6 dBi	39.9 dBi	45.8 dBi	46.2 dBi

Dual Maritime System includes:

Two Ultra .85 M antenna with Band selected RF package

Fiber Conversion Kit, two fiber switches and fiber reel

Two Fabric Radomes

Dual Maritime

Remove maritime base, attach legs and use as a independant fly away terminals.

Cases are designed to be carried through hatches and be manuvered throughout the vessel to include ladderwells and narrow halls.

Use internal or external modem.

RF over conversion for near seamless handover between primary and secondary terminals. Loss as small as one byte.

Ground / Flyaway

Transceiver
Available in X, Ka, and Ku

Petals
6 Interchangeable petals

Optional IP Optimization
Cisco WAAS IP Acceleration on Comtech Convoy Router Server Module

iDirect e850mp
Tx Out: Type-F, 950-2000 MHz
Rx In: Type-F, 950-2000 MHz Rx
Out: Type-F, 950-2000 MHz
LAN-: Single 10/100 Mbps Ethernet
Console: RS-232 Console Connection
GPS: Input or Antenna Controls Supported
10 MHz External Reference Clock

Protocols Supported
TCP, UDP, ICMP, RIP v2, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, Open AMIP, cRTP and GRE

About Comtech

Comtech Telecommunications Corp. (Nasdaq: CMTL) designs, develops, produces and markets innovative products, systems and services for advanced communications solutions. The Company sells products to a diverse customer base in the global commercial and government communications markets. For more information visit www.comtechtel.com.

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