Ultra .85

Tactical Communications | **Ultra .85**

Ultra is the first dual-use VSAT terminal with high speed, hyper-accurate auto-acquire and tracking technology using differential GPS. Lightweight, IP 65 compliant and operational in 30 mph winds, it is airline transportable, easily set up and fully operational by one person without the use of tools in under 10 minutes. Ultra auto-tracks inclined orbit, MEO and LEO satellites and can auto-track UAVs to provide tactical downlink of critical ISR data and imagery.

Ultra is capable of operating in X-, Ku-, Ka-Mil, and commercial Ka-Band, and is easily configured for operations in maritime or land-based environments. It also features a single monitor and control GUI for terminal and baseband equipment.
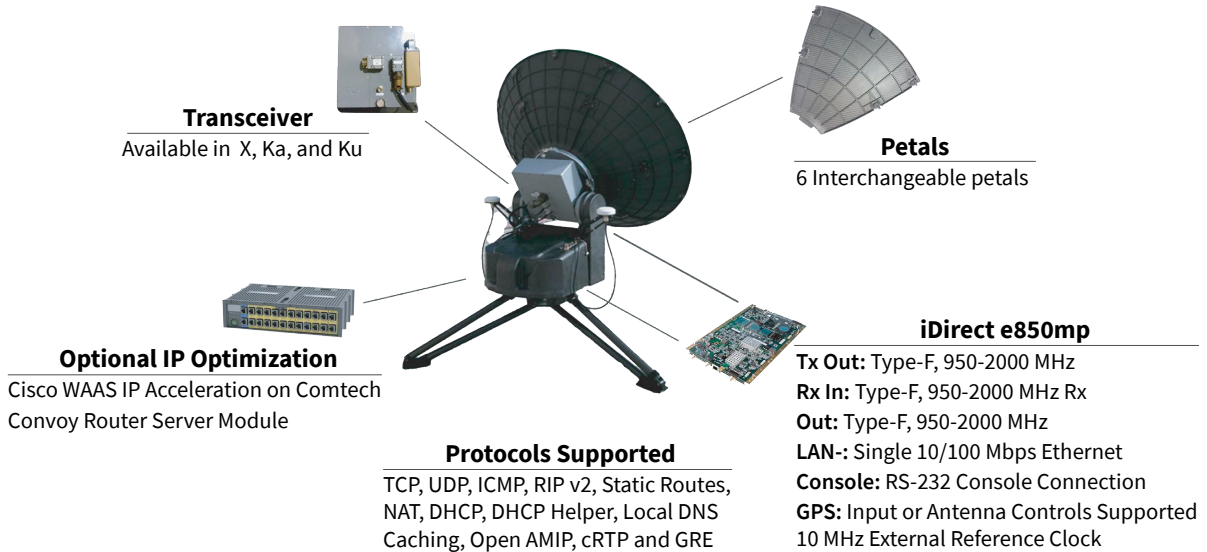
With design features that include an embedded modem, IP I/O data port, embedded Web based GUI, and ability to operate around the globe, Ultra is the most flexible communication terminal in the modern warfighters arsenal. Furthermore, Ultra is field-proven across a variety of DoD organizations with different skills and missions, including the U.S. Army, U.S. Joint Forces and Combined Forces, U.S. Air Force and U.S. Navy.

Specifications

Weight (lbs)	55
Cases	1
Setup	1 Person
Setup Time	7 Minutes
Pointing Accuracy	+/- .5 degrees
Satellite Lock-up	<2 minutes
Fully Operational	15 Minutes

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

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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