



Ultra 1.3

Tactical Communications | **Ultra 1.3**

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.

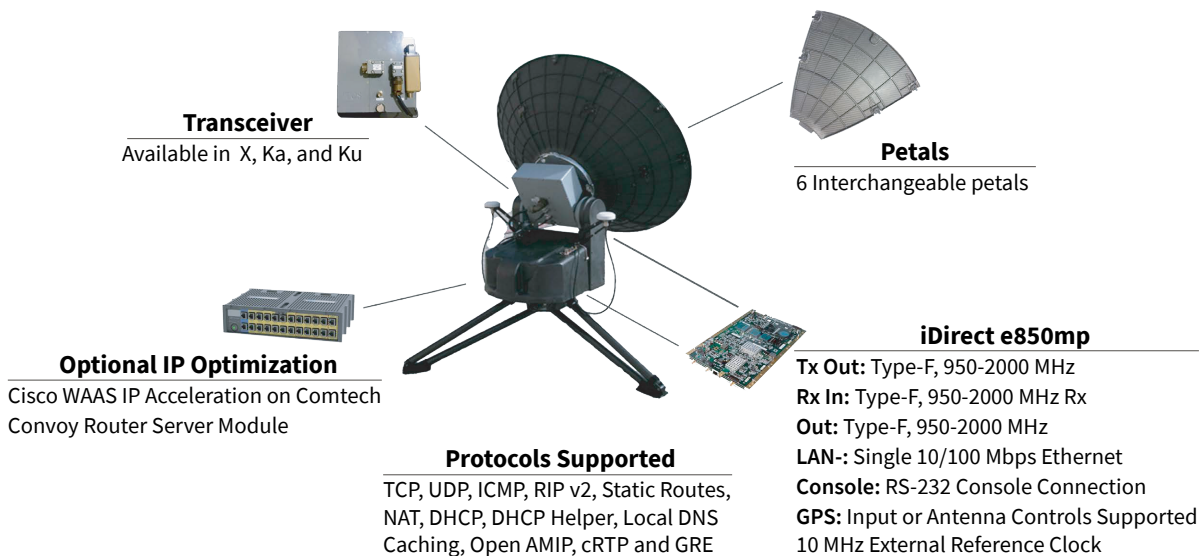
Ultra is capable of operating in X-, Ku-, Ka-Mil, commercial Ka-, and Q-Band, and is easily configured for operations in maritime or landbased environments. It also features a single monitor and control GUI for terminal and baseband equipment.

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)	48
Cases	1
Setup	1 Person
Setup Time	7 Minutes
Pointing Accuracy	+/- .1 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	59 K	59 K	120 K	120 K
G/T at 10° EL, 25°C	16.7 dB/K	21.1 dB/K	22.1 dB/K	22.5 dB/K
G/T at 20° EL, 25°C	17.0 dB/K	21.4 dB/K	22.4 dB/K	22.8 dB/K
G/T at 30° EL, 25°C	17.0 dB/K	21.5 dB/K	22.6 dB/K	23.0 dB/K
EIRP at Saturation Power	52.1 dBW	57.4 dBW	62.3 dBW	62.7 dBW
Gain at Rx	37.7 dBi	41.9 dBi	46.0 dBi	46.5 dBi
Gain at Tx	38.3 dBi	43.6 dBi	49.5 dBi	49.9 dBi



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.

Command & Control Technologies™

275 West Street
Annapolis, MD 21401 USA
Toll Free: 1.800.557.5869
Outside US: +1.410.263.7616
www.comtechtel.com