P-Ultra
Protected Communications

Tactical Communications | P-Ultra

Anti-Jam(AJ)/Lower Probability of Intercept (LPI)/Lower Probability of Detection (LPD), assured connectivity for America's military is a current and growing requirement for operation in the contested and Anti-Access/ Area Denial (A2/AD) warfighting environment. While AEHF can provide the on-orbit capacity to support tactical users, current AEHF terminals are too large and are unaffordable to support the numbers needed for tactical mission requirements. Comtech has developed the P-Ultra terminal for applications from Comm-at-the-Quick Halt to fixed installations. The design for P-Ultra leverages Comtech's Ultra terminal and the electronics from the LCT program to provide a very low cost, protected capability for stationary users. The P-Ultra is compatible with the AEHF satellite constellation, and is forward compatible with a constellation of more than ten satellites. AEHF enables multiple access points worldwide, and management of the terminals in theatre, from CONUS, or other remote locations. The P-Ultra can support a range of XDR narrowband and wideband modes from 75 bps to 8 Mbps Uplink and 150 bps to 4Mbps downlink. The terminal can support any number of users within a Local Area Network (LAN) connected to the terminal via an appropriate router and data encryption device.

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Specifications

Weight (lbs)	65
Cases	2
Setup	1 Person
Setup Time	10 Minutes
Pointing Accuracy	+/- .5 degrees
Satellite Lock-up	<2 minutes
Fully Operational	15 Minutes

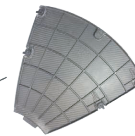## P-Ultra, Protected Communications

Requirements	
Mobility	Comm-at-the-Halt & Comm-at-the-Pause
Antenna Assembly Envelope	Transit Case, .85M Antenna
Uplink Antenna Gain	52 dBi (1.2M)
Uplink Data Rates	0.075 – 1,024 kbps (potential of 8,192 kbps)
Downlink Data Rates	0.150 – 4,096 kbps (potential of 8,192 kbps)
User/Operator Interface	Unclassified Smart Phone or Tablet
AEHF SCG Compliance	Fully Compliant

AEHF Modem and RF Package

Petals
6 Interchangeable petals

AEHF Information Assurance (IA) Package
Baseband Interface Unit (BIU)
End Cryptographic Unit (ECU)

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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