



Mercury Lite

Mobile Backpack Communication

Mercury Lite is a cellular backpack communication solution that provides ruggedized, robust, extremely secure voice and data networking with exceptional endurance under challenging battleground conditions. Designed for extremely mobile situations, Mercury Lite provides the benefits of cellular connectivity on the move, even when on foot. Whether operating in desert/sea conditions or a hilly terrain, it provides highly reliable voice for persistent communication and data connectivity necessary to take advantage of smart phone capabilities for battleground circumstances.

Mercury Lite augments the safety and success of soldiers by delivering improved situational awareness in the form of state-of-the-art voice, data and SMS. Enabling remotely stationed troops in a military unit to function in a cohesive manner by using both commercial and specially designed applications to communicate and share time critical information.



Mobile Backpack Communication

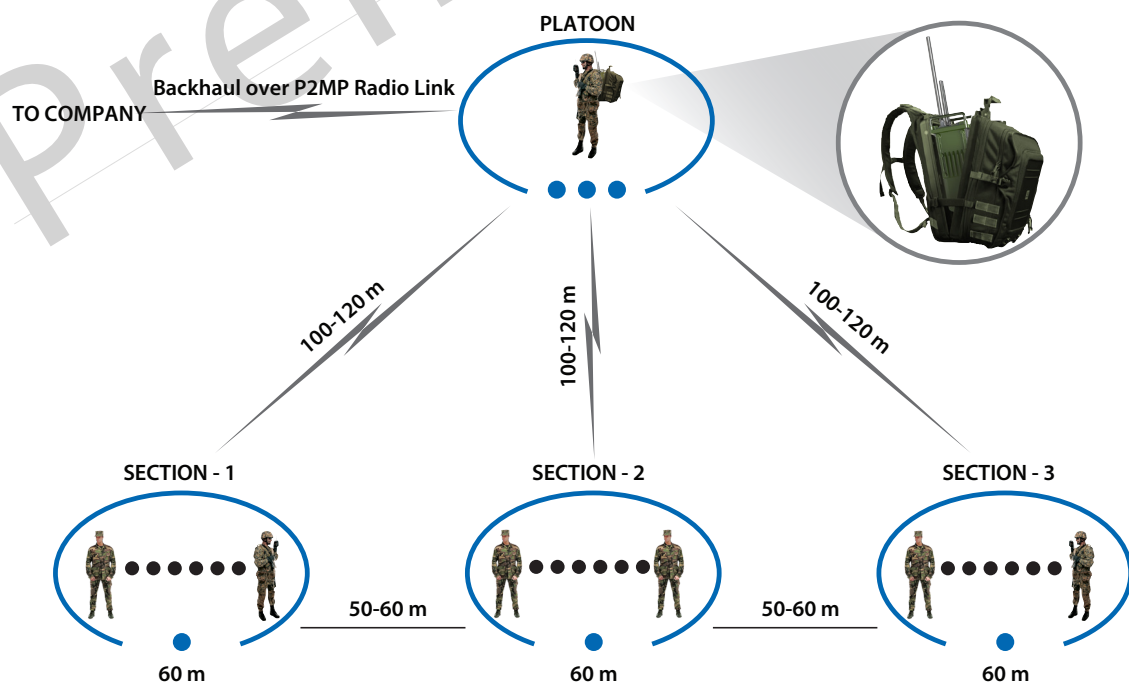
Compact GSM Network

BENEFITS

- Simultaneous voice and data communication support in remote locations, difficult terrain and challenging events
- A gamut of services provided by android-based smart devices on the combat zone while still being a node on the military network
- Leverages mobile communication technology, for enhancement of combat and humanitarian operations
- External P2P/P2MP radio connectivity possible
- Benefits from existing smart device applications to ensure superior intra/inter unit communication via voice, short message, data ,video, and other military specific communication applications
- Fast and simple Deployment with minimal configuration
- Interception and Monitoring of Voice and Data possible

PRODUCT DIFFERENTIATOR

- Commercial GSM technology, re-designed into rugged, self-contained package, operates effectively in harsh weather conditions
- Man-portable design supports operation in a backpack, can also be used for in-vehicle operation with a tactical radio interface mount
- Custom SIM cards for smart devices ensure the highest level of information assurance through mutual authentication
- Special Military band operation with compatible handsets, available on demand
- Flexible IP network connects with a variety of tactical backhaul options
- Integrated GSM Switch with IP Radio/VSAT backhaul option
- Integrated 1 TRX BTS, 1+1 Battery pack , Point to Multipoint Radio, 1 GSM Antennae, Radio Antenna and GPS Antenna
- Up to 300 m range possible



SPECIFICATIONS

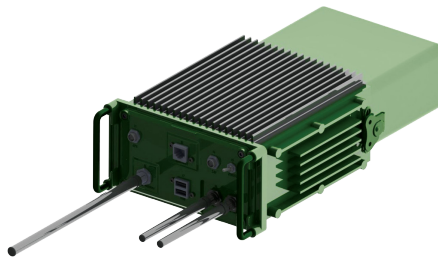
ACCESS FEATURES	
Air Interface	GSM 3GPP Release 5
Frequency Band	GSM 850/900/1800/1900 MHz Customised Band: 600/1400 MHz
Output Power	20 dBm Channel (min)
Carrier	Single Carrier
Power	Power Supply: 24 V, Power Consumption: < 40 W
Connectivity	Ethernet (10/100 Mbps)
Services	Voice, SMS, Data, CSD, GPRS, EGPRS
Capacity	14 Simultaneous Voice Calls
Integrated GSM Switch	MSC/BSC/HLR/AuC/EiR/SMSC/SGSN Functionality

BACKHAUL FEATURES	
Frequency Range	ISM Band: 2.4 GHz/5.8 GHz Defense Band: 1.3 – 1.7 GHz/4.4 – 5.0 GHz
Data Rate	25/50/100 Mbps (Full-Duplex)
Encryption	AES - 128/256
RF Output (dBm)	23 dbm (Configurable)

PHYSICAL CHARACTERISTICS	
RF	Two N-type for TX and RX ; GPS-TNC
USB	One USB 2.0
Ethernet	One RJ45
Battery Types	BA-5590/U, BA-5390/U, BB-590/U, BB-390/U, BB-2590/U
Size (H x W x D in mm) Approx	94 x 190 x 360
Weight (Kg) Approx	5.5
Water & Dust Protection	IP65
Operating Temperature	-30° to 55° C (-22° to 131° F)



Ruggedized handset



Mercury Lite 1 TRX BTS



Mercury Lite in a Mobile Backpack

ABOUT VNL

VNL makes the award-winning WorldGSM™ system, the sustainable turnkey GSM and Broadband solution specifically made for remote locations. It also makes a range of Privately Owned and Managed GSM & Broadband Network solutions for specialized applications such as secure communications platform for tactical operations such as defense and homeland security, communications for remote industrial centers and rapidly deployable networks for disaster and emergency situations.

VNL's pioneering work has been widely praised: during Mobile World Congress 2010 in Barcelona, VNL was the recipient of GSMA's 2010 "Green Mobile - Best Green Programme Product or Initiative" Award. VNL was also named as a Technology Pioneer 2010 by The World Economic Forum. In addition, VNL was named the third most innovative company - and the most innovative telecoms company - in the world in the Wall Street Journal's annual Technology Innovation Awards in 2009.



CORPORATE HEADQUARTERS

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