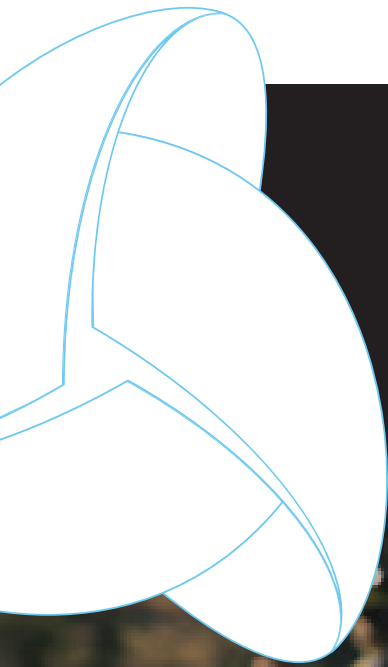


Oceus Networks

Xiphos[®] Micro 3

**TACTICAL, LIGHTWEIGHT MAN-PORTABLE 4G LTE
COMMUNICATION SOLUTION**



Xiphos[®] Micro 3

From remote battlefield operations to urban emergencies, mission success depends on optimal situational awareness. Xiphos[®] Micro delivers a mobile and reliable broadband network when communications infrastructure is inadequate, damaged or non-existent in the most challenging environments.

Xiphos Micro, the latest extension of Oceus Networks' proven Xiphos mobile communications solutions, is a small form-factor 4th Generation (4G) Long Term Evolution (LTE) self-contained network. Optimized for tactical, on-the-move operations, Xiphos Micro provides mobile broadband quickly in situations where no other suitable network exists or a private network is desired.

Xiphos Micro is a reliable, easily-deployable broadband system that enables high-speed voice, video and data communications to facilitate complex operations and

addresses the immediate communication and data requirements of mobile field personnel. It is optimized for reduced size, weight and power (SWAP) consumption. Its rugged, military grade (MIL-STD-810G) compliant construction, coupled with the latest technology and security features, makes it ideal for a wide variety of battlefield, remote location and emergency-responder situations.

Xiphos Micro allows users to augment, or potentially replace, cost-prohibitive equipment with Commercial Off-The-Shelf (COTS) cellular hardware.

XIPHOS

Key Benefits

Mission-Critical Operations: Xiphos Micro provides users access to fast, mobile broadband connectivity in mission-critical operations.

Easy-to-Use: Installs easily, operates autonomously, and powers up fast for operation in minutes.

Reduced Footprint and Power Consumption for Man-Portable Operations: Provides operation of a complete 4G LTE self-contained network that includes a micro eNodeB optimized for use in situations where reduced footprint and power consumption, and mobility are driving factors.

Ruggedized Hardware: Ruggedized for harsh environments and MIL Standards-compliant construction.

Based on Commercial Technology: Reduces costs and allows users to benefit from best-of-breed tools, applications and smart phones. Built on standards-based, commercial 4G LTE technology to leverage industry innovation and economies of scale.

High Capacity Data Transfer: High data throughput enables many in demand applications, such as NSA Compliant secure Commercial Solutions for Classified (CSfC) dual-tunnel encryption; biometrics; databases; Intelligence, Surveillance and Reconnaissance (ISR); positioning and sensor data; situational awareness and collaboration; streaming HD video and Voice over IP.

Enables Local Applications: Embedded server platform runs applications locally in a virtualized environment.

Advanced Network of Xiphos (ANOX): The ANOX architecture allows a swarm of on-the-move Xiphos systems to dynamically recognize other Xiphos peer systems, and make intelligent decisions how to optimize network connectivity.

Additional Outputs:

- Output Power for MANET Backhaul
- SAASM GPS

XIPHOS MICRO HARDWARE

Xiphos Micro is ruggedized and optimized for portability when reduced size, weight and power consumption is important for the last mile deployment. Micro consists of the following main components:

System Unit

- Micro LTE eNodeB with 2x5W RF Output Power
- MIL-STD 810G Compliant
- Server Platform for Evolved Packet Core (EPC), Home Subscriber Server (HSS), and O&M SW, with Virtualized Space for Local Applications
- GPS
- Status Indicators
- Radio On/Off Button
- Emergency Zero Button Renders Unit Non-Operational
- Fan-less Cooling
- Up to Two (2) Military Grade Field Swappable Batteries or military 28V DC input vehicle power support
- Provides Up to Six (6) Hours Operation

Deployment Solutions

- Vehicle Mount/Dismount Solution
- Dismounted - Ergonomic Pack with Battery Pouches
- Mast Mount Site Solution

Field Kits

- Rugged Transport Case
- AC Power Supply
- AC/DC Outdoor Power Supply
- Battery Charger
- Cabling, Antennas, Connectors

To learn more about the Oceus Networks Xiphos solution, visit:

www.oceusnetworks.com

FIGURES AND FACTS	XIPHOS MICRO 3
Dimensions: Size (HxWxD) Weight	11"x15"x4.5" 19 lbs
Power: Power input Power consumption	28 VDC <100W
Capacity (max values): LTE eNodeB Bandwidth RF Output Power DL Mbps UL Mbps Concurrent Connected RF Sessions	1 Micro eNodeB 5, 10, 15, 20 Mhz 2x5W 140 40 64
LTE Frequency Bands (MHz):	1900 (2), 1800 (3), 700 (28), additional custom bands per customer requirements
3GPP Standard	RAN: Release 11, Core: Release 13
Environmental: Temperature High Temperature Low MIL 810G EMI, FCC Part 15, Class B	122F/50C -4F/-20C Compliant Compliant