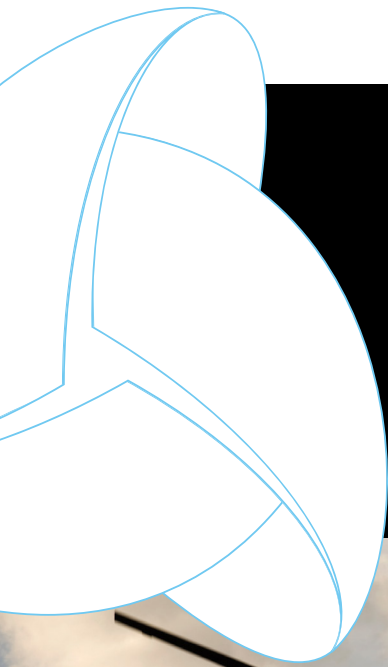


Oceus Networks Xiphos[®] Mid

**COMPACT AND RAPIDLY DEPLOYABLE VEHICULAR
4G LTE COMMUNICATION SOLUTION**



Reliable communications systems are essential to success for on-the-move ground teams. Xiphos[®] Mid is a tactical, compact mid-tier 4G LTE RF Macro system optimized for deployment where reduced size, weight and power consumption are driving factors.



Xiphos[®] Mid

Xiphos Mid is a complete 4th Generation (4G) Long Term Evolution (LTE) self-contained network within a single enclosure. It provides mobile broadband quickly in areas where no other suitable network exists. The Xiphos Mid module contains a Macro Radio Unit with up to 80W RF output power. It is optimal for use when Macro RF output power is required, but reduced size, weight and power consumption are a must.

Xiphos Mid is based on Ericsson's world leading LTE macro radio technology, which provides superior RF output power and range. A typical ground deployment provides 5-7 miles of range, while an airborne deployment provides over 50 miles of range with a clear line of sight.

Designed specifically for on-the-move missions, Xiphos Mid is a compact self-contained network that provides secure, high-speed voice, video and data communications to the edge.



Key Benefits

Mission-Critical Operations: Xiphos Mid supports mission-critical operations by providing users access to fast mobile broadband connectivity.

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

Reduced Footprint and Power

Consumption: A complete 4G LTE network solution including a Macro Radio Unit that is optimized for use in situations where reduced footprint and power consumption are driving factors.

Based on Commercial Technology: The use of standards-based carrier grade commercial 4G LTE technology in Xiphos Mid allows customers to leverage industry innovation and economies of scale to lower costs and to equip users with best-of-breed tools, applications and smartphones.

High Capacity Data Transfer: High data throughput enables many applications in demand, such as biometric information; databases; Intelligence, Surveillance and Reconnaissance (ISR); positioning and sensor data; situational awareness and collaboration; streaming HD video and Voice over IP.

Enabler for Local Applications: The embedded server platform within Xiphos Mid enables applications to run locally, including security applications. This is especially important if the system operates in stand-alone mode without connectivity to external applications and content.

Multitude of LTE Frequencies: Supports a full range of Frequency Division Duplex (FDD) bands, and it is compatible with commercial 4G LTE devices.

Network Scalability: Xiphos Mid can be deployed in a Network of Xiphos (NOX) configuration, allowing users to move between coverage areas while maintaining already established sessions. This provides flexible network scalability by increasing the aggregated coverage area, data throughput and concurrent connected radio sessions for each deployed Xiphos system.

Advanced Network of Xiphos (ANOX): ANOX allows Xiphos systems to work together. It detects connectivity between units, synchronizes key elements and contains algorithms that adjust various elements in real-time to provide the best connectivity to the end-user.

Interference Detection: Detects LTE cell interference and displays alarms on the operations & maintenance (O&M) dashboard.

Carrier Grade Features and Functions: Supports the latest LTE features being deployed in the most advanced carrier networks. This includes support for Quality of Service (QoS), policy management and enforcement, Self Organizing Network (SON), priority and pre-emption handling and radio interface optimization.

XIPHOS MID HW

The Xiphos Mid HW unit is optimized for reduced size, weight and power consumption while still providing a Macro RF capability. The HW unit contains the following main components:

- Macro Radio Unit with up to 80W RF output power, frequency band dependent.
- Digital Unit for base band processing.
- Server platform for Evolved Packet Core (EPC), Home Subscriber Server (HSS), and O&M SW.
- Second server platform that can host local applications.

To learn more about the Oceus Networks Xiphos solution, visit: www.oceusnetworks.com

FIGURES AND FACTS	XIPHOS MID
Dimensions*: Size (HxWxD) Weight	9" x 14" x 16" 50 lbs
Power: Power input Power consumption	28V DC <500W
Capacity (max values): Radio Units Bandwidth RF Output Power DL Mbps (20 MHz band) UL Mbps (20 MHz band) Concurrent Connected RF Sessions	1 Macro RU 20 Mhz Up to 80W, Frequency Band Dependent 75 50 500
LTE Frequency Bands (MHz):	2100 (1),1900 (2),1800 (3),17/2100 (4),850 (5),2600 (7),700 (12,13,14,17),800 (20)
Server for local applications:	4th Generation Intel Quad Core i7 Processor, 2.4 GHz, 8GB RAM 2 TB SSD
Environmental: Temperature High Temperature Low MIL 810G, Altitude 15,000 ft EMI, FCC Part 15, Class A	122F/50C -4F/-20C Compliant Compliant