Reliable communications systems are essential to success for on-the-move ground teams. Xiphos® Macro Virtualized is a tactical, compact 4G LTE / 5G NR Macro system optimized for deployment where reduced size, weight and power consumption are driving factors.

Xiphos® Macro Virtualized (XMAC-V) is a complete 4G Long Term Evolution (LTE) / 5G New Radio (NR) solution that offers full flexibility in deployments. It provides mobile broadband quickly in areas where no other suitable network exists or a private network is desired. The XMAC-V offers an outdoor Macro radio solution that is connected to a virtualized core network which provides a future-proof solution.

XMAC-V is based on Ericsson’s world leading 4G/5G radio technology, which provides superior RF output power, range, and performance.

XMAC-V provides a complete on-the-move system for critical missions and has been designed for a virtualized environment for secure, high-speed voice, video and data communications to the tactical edge.
BASEDBAND 6303

**SIZE (HxWxD)**  
10.5" x 8" x 4"

**WEIGHT**  
12 lbs

**POWER INPUT**  
110V AC

**NOMINAL VOLTAGE**  
100-250V AC

**SUPPORTED RADIO INTERFACE CONNECTIONS**  
Three (3) radio ports

**MAXIMUM NUMBER OF CELLS (FDD/TDD)**  
Twelve (12)

**SUPPORTED BANDWIDTHS**  
1.4, 3, 5, 10, 15, or 20 MHz

**MAXIMUM NUMBER OF RADIOS PER CASCADE CHAIN**  
Six (6)

**ENVIRONMENTAL**

**TEMPERATURE HIGH**  
131°F/55°C

**TEMPERATURE LOW: RADIO**  
-40°F/-40°C

**EMI, FCC PART 15, CLASS A**  
Compliant

**LTE FREQUENCY BANDS (MHz)**

- 2100 (1),1900 (2),1800 (3),1710/1805 (66A),800 (5),2600 (7),700 (23,12,17,62),800 (20),2600 (41),3500 (48),600 (7), additional bands per customer requirements

**XIPHOS XMAC-V FIGURES AND FACTS**

**MISSION-CRITICAL OPERATIONS**

XMAC-V 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.

**BASED ON COMMERCIAL TECHNOLOGY**

The use of standards-based carrier grade commercial 4G/5G technology, XMAC-V 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.

**MULTITUDE OF FREQUENCIES**

Supports a wide range of FDD and TDD bands, and it is compatible with commercial 4G LTE devices.

**NETWORk SCALABILITY**

XMAC-V 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 (AN0X)**

AN0X 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 RF interference and displays alarms on the operations & maintenance (O&M) dashboard.

**CARRIER GRADE FEATURES AND FUNCTIONS**

Supports the latest 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.

**KEY BENEFITS XIPHOS MACRO VIRTUALIZED**

The Xiphos Macro Virtualized is optimized for reduced size, weight and power consumption while still providing Macro RF capability.

XMAC-V is a complete outdoor baseband and radio solution with virtualized core network functionality that is easily installed and configured on customer’s virtual network.

The system contains the following main components:

- Macro Radio Unit with AC output power; frequency band dependent.
- 6303 outdoor baseband processor.
- Virtualized Software for Evolved Packet Core (EPC), Home Subscriber Server (HSS), and O&M SW.

**SUPPORTED LTE RADIOS**

- 2203, 2212, 2217, 2219, 4412, 4478

   (Not all frequencies are available for all radio types)

**CONNECTIONS**

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** logistical CPUs**

Four (4) Eight (8) Eight (8)

**HARDWARE CPU**

Dual Core i7 @ 2.20 GHz or better  
Quad Core i7 3770 @ 3.4GHz or better  
Quad Core i7 6700TE @ 3.4GHz preferred

**RAM**

8GB Minimum; 16GB Recommended  
8GB Minimum; 16GB Recommended  
16GB Minimum; 32GB Recommended

**STORAGE**

250GB  
250GB  
250GB

**XIPHOS VM**

120GB  
120GB  
120GB

**ESXi**

10GB  
10GB  
10GB

**SNAPSHOTS**

120GB  
120GB  
120GB

**LTE FREQUENCY BANDS (MHz)**

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**ESXI VERSION**

6.5 update 1 or newer  
6.5 update 1 or newer  
6.5 update 1 or newer

**vCPUs**

Four (4) - 2 Sockets/2 Cores per socket with hyperthreading  
Eight (8) - 4 Sockets/2 Cores per socket with hyperthreading  
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To learn more about Oceus Networks’ Xiphos solutions, visit: www.oceusnetworks.com

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