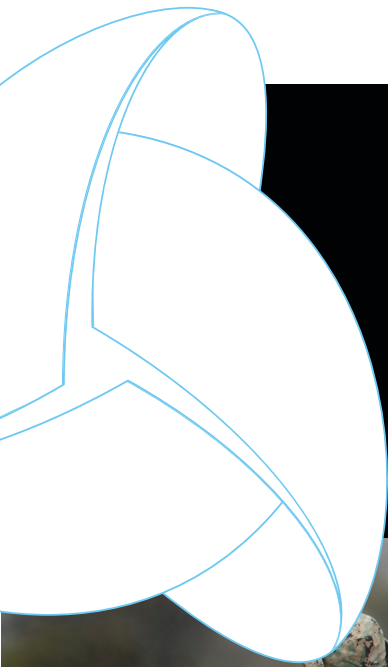


Oceus Networks Multi Purpose Server Platform (MPSP)

COTS-BASED, VERSATILE AND RUGGED SERVER MODULE



The Multi Purpose Server Platform (MPSP) is a rugged Commercial-Off-The-Shelf (COTS)-based server module designed to host mission-critical multimedia applications in tactical environments.



Multi Purpose Server Platform

The rugged MIL-STD-810G-compliant design supports a multitude of deployment scenarios, such as at-the-halt and on-the-move vehicle deployments, airborne deployments and fixed deployments.

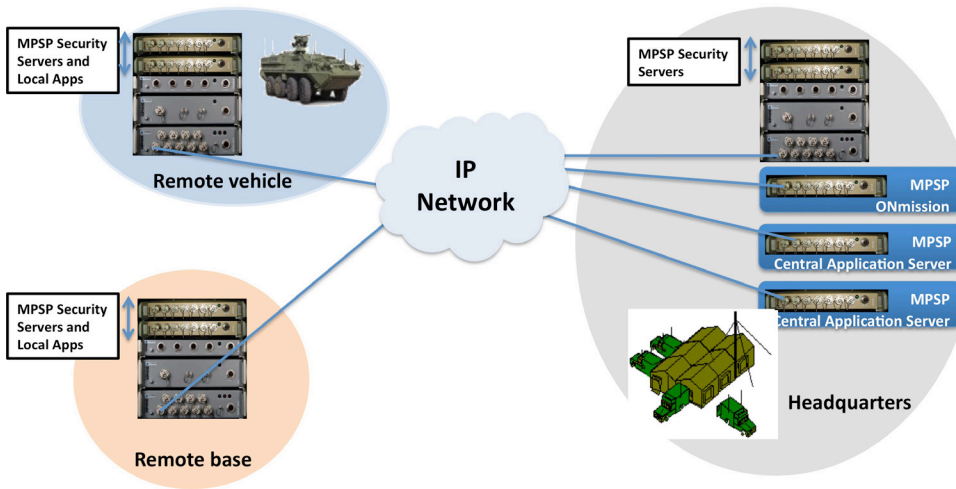
MPSP is aligned with the Oceus Networks Xiphos™ family of modular components. Xiphos is a family of 4G LTE broadband tactical edge solutions designed to augment existing government networking infrastructures. These solutions are optimized for rugged tactical environments to provide users with high speed data, voice and video communication.

The MPSP form factor consists of modular components, including a powerful server and virtualization software (optional), that can be fully integrated with the Xiphos family modules to support mission-critical applications. Since the MPSP form factor is identical to that of Xiphos in width and length, it works seamlessly as a third or fourth module.

As the name suggests, MPSP can be used for “multiple purposes,” such as a server for Oceus Networks ONmission™ (a network management control center), a server for the Xiphos security solution or an application server connected to Xiphos over IP.

MPSP Deployment Scenario

MPSP is a COTS-based, versatile and rugged server module that hosts critical applications deployed in tactical environments. The MPSP module is aligned with the Xiphos modular design. It can be deployed as a stand-alone solution or together with the Xiphos 4G LTE broadband solution.



MPSP can complement a typical Network of Xiphos (NOX) deployment as shown above. In this example, Xiphos is deployed in one central location (headquarters) and in two remote locations (remote base and remote vehicle), and all locations are interconnected over an IP network. At the remote locations, two MPSP servers are co-located with Xiphos to provide a security solution and local applications. Being able to access local applications is of particular

importance in case the remote locations temporarily operate in disconnected mode; i.e., with no IP connection to other locations. At the headquarters location, two MPSP servers are co-located with Xiphos to provide a security solution. One MPSP server is dedicated to the Oceus Networks ONmission mobile network management control center and two additional servers provide central applications for the entire Xiphos network.

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MODULAR HW COMPONENTS

The MPSP module is aligned with the Xiphos family of modular hardware components that consist of the following ruggedized modules:

- **Main Unit Module:** Contains the Enhanced Packet Core (EPC), HSS, PCRF (optional) and Integrated Service Application software and Digital Unit LTE (DUL) base band processing. Three Radio Units (RU) can be connected.
- **RU Module:** Supports a variety of LTE frequency bands.
- **Remote RU:** Deployed close to the antenna. Supports a variety of LTE bands.
- **DUL Module for RU Extensions:** Three additional RUs can be connected.
- **Power Module:** If necessary, provides AC-to-DC or DC-to-DC conversion.
- **MPSP Module:** Generic Server Module to host mission-critical applications.

Combining these modules in a flexible manner allows for a variety of deployment alternatives to support customer specific footprints, capacities and environmental requirements. Please refer to the figure and facts table below for MPSP specifications. For details about the other modules, please see the Xiphos datasheet.

ITEMS	CHARACTERISTICS
Main Components: MPSP HW MPSP SW	1 Server Unit: Dual 8*Core 2.1 GHz Processor, 32 GB DRAM, 1024 GB SSD Licensed Virtualization SW (Optional)
Dimensions: Dimensions (H x W x D) Weight	3" x 16.5" x 18.5" 22 lbs
Power: Power Consumption Power Input	<265W -48 VDC
Connections: Front Connections	6 RJ45 Ethernet Connections; 1 USB Port; 1 DC Power Connection; 1 Green LED for Power
Environmental: Temperature High Temperature Low	113F/45C -4F/-10C
MIL 810G	Compliant
EMI, FCC Part 15, Class A	Compliant