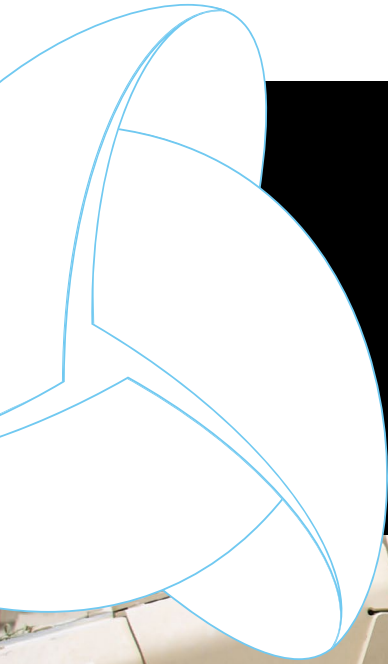# Oceus Networks
Xiphos® TMD

RUGGEDIZED AND SECURE LTE SMARTPHONE

A reliable network needs a reliable end user device to provide the best user experience. Oceus Networks' Xiphos® TMD smartphone leverages the robust capabilities of the Xiphos family of systems to provide a rich and tailored user experience, even in the toughest environments.

Xiphos® TMD

The Xiphos Tactical Mobile Device (TMD) smartphone is designed and built for the most demanding mobile security environments. The rugged, yet ergonomic design houses a powerful quad-core processor optimized for low power consumption. It incorporates Department of Defense (DoD) and Public Safety required features, such as Push-to-Talk (PTT), IP67 water and dust survivability, as well as MIL-STD-810G shock resistance.

Xiphos TMD supports all of the popular U.S. LTE bands, including Public Safety Band 14. It can be complemented by the Oceus Networks® Secure Mobile Platform (SMP), which is a suite of Android applications tailored for the user or administrator. SMP includes Mobile Device Management

(MDM) functions, such as LTE connection monitoring, sensor collection and GPS positioning. The SMP optional security package enables DoD specific security requirements, such as encrypted dual-tunnel VPN communication, and includes Data-In-Transit and Data-At-Rest protection, local or remote device wipe, lock/logoff and password change. The encrypted dual-tunnel solution enabled by the SMP VPN manager requires the use of two VPN clients. The embedded IPsec compliant Xiphos® TMD SafeMove VPN client is a natural choice for one of the tunnels. The optional IPsec compliant Oceus Networks® VPN client is the recommended choice for the second tunnel. SMP can be managed remotely from the ONmission™ Network Management System.

XIPHOS

Key Benefits

Commercial Off-The-Shelf (COTS) carrier grade product: Supports commercial and first responder frequencies.

Audio: High-performance speaker, multi- microphone active noise cancelling, earpiece and microphone and 3.5mm headset connector.

Easy-to-use: Programmable HW keys for use in PPT or emergency calls, glove- usable touch screen, functional also in wet conditions and 5" Full HD (1080x1920) LCD.

Enhanced Telephony Features: Enhanced PTT and dual-SIM option available.

Efficient: 2.3 GHz quad-core processor meets performance requirement and low power consumption and 2420 mAh Li-Ion.

Positioning: aGPS / Glonass and iZat™ positioning framework.

Imaging and Video: 8 MP with Autofocus and LED Flash, 2 MP for front facing applications and Full HD video capture and playback.

Sensors: 3D Gyroscope, Accelerometer, Magnetometer, Proximity Sensor, Ambient Light Sensor and Barometer.

Security Features: Secure Operating System: Android™ 5.1 Lollipop, secure boot with HW-enabled integrity, runtime integrity, SafeMove Native VPN (optional) Application permission firewall, secure data storage for user credentials and encryption keys, encrypted mass memory and tampering detection.

Optional Applications:
Secure Mobile Platform (SMP), a suite of Android applications including:

- Device sensor collection
- GPS positioning
- LTE connection performance diagnostics and monitoring
- VPN manager enabling dual-tunnel encrypted communication
- Device wipe, lock/logoff and password change

Oceus VPN Client:

- IPsec VPN
- IKEv1, IKEv2, IPv4, IPv6, XUATH, NAT Traversal
- RSA, NSA Suite B

Robust: MIL-STD-810 G level shock resistance, IP67 level water and dust protection, Operating Range: -20 °C ... +60 °C.

Memory: 2 GB LPDDR3 RAM, 16 GB eMMC Mass Storage and Micro SD expansion slot.

XIPHOS® TMD SECURE LTE SMARTPHONE

Xiphos TMD is a Commercial-Off-The-Shelf (COTS) device specialized for high security use. It includes a built-in IPsec VPN client meeting Suite B security requirements to ensure end user security and privacy. It is rugged, providing IP67 level water and dust protection and MIL-STD-810G level shock resistance. Xiphos TMD has enhanced usability features such as a dedicated push-to-talk (PTT) button, active noise and echo cancellation, powerful loudspeaker and glove-usable touch screen.

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

WIRELESS TECHNOLOGIES	
LTE	3GPP rel10 (LTE Advanced) FDD Cat4, DL 150 Mbit/s, UL 50 Mbit/s IMS, VoLTE-ready Brand configuration: - US: B2 (1900), B4 (1700), B5 (850), B12/B17 (700), B13 (700), B14 (700) - EU: B3 (1800), B7 (2600), B20 (800) Carrier Aggregation: supported
UMTS / HSPA	3GPP R99 384/384 kbps 3GPP rel8, HSPA+, 42 Mbps/11.5 Mbps Band Configuration: US: B2 (1900), B4 (1700), B5 (850) - EU/APAC: B1 (2100), B8 (900)
GSM / GPRS / EDGE	850/900/1800/1900 MHz
Other Radios:	Wi-Fi 802.11 a/b/g/n/ac BT 4.0 NFC (option)