

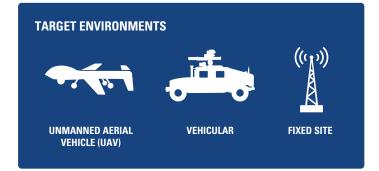
# VIPER 3U-VPX-14



### APPLICATION DIVERSE PLATFORM, PROVEN CMOSS SOLUTION

The Viper 3U-VPX-14 supports the U.S. Army's CMOSS initiative as well as SOSA 1.0 alignment and is implemented in the OpenVPX<sup>™</sup> 3U form factor. The Viper 3U-VPX-14 is a highly capable and robust software defined radio that can save space in rack mounted systems.

The Viper 3U-VPX-14 provides the technical agility for your personnel to process a variety of radio technologies and frequencies across a number of applications. It is ideal for quick reaction capability in mounted, dismounted, airborne, and fixed site installations.



#### **COMPATIBLE APPLICATIONS AND TECHNOLOGIES**

- ((IIII)) TACTICAL LTE NETWORK Stand-alone, high-bandwidth LTE data link
- III GRAPHICAL RECORD I/Q AND PLAYBACK
  - USER CUSTOMIZED: 70 MHz 6 GHz
    - **RAPIDLY DEPLOYABLE BASE STATION** GSM. CDMA2K. UMTS. and LTE-FDD
  - (-1)
- **ARTIFICIAL INTELLIGENCE SURVEY** GSM, CDMA2K, UMTS, and LTE
- PUSH TO TALK and CYBER UHF and VHF

ROCKSLIDE

DMR

GSM Bands - 850, 900, 1800, 1900 UMTS Bands - 1-14, 19-22, 25, 26



## **CUSTOMIZABLE APPLICATIONS**

Spectrum Analysis, Signal Identification, Network Survey, Network Monitoring and Signal Copy Available On: PTT, DMR, TETRA, GSM, CDMA2K, UMTS, LTE, WiMAX, Wi-Fi

#### **FEATURES**

Developed In Alignment With The SOSA™ Technical Standard

CMOSS Compliance: ANSI/VITA 65 and 67.3

#### **OPEN VPX™** Form Factor

Rugged: MIL-STD-461F and MIL-STD-810G Compliant

Generic Transmission and Reception: 70 MHz - 6 GHz

• Increased data export capabilities with 10 GbE and 40 GbE interfaces

**Quickly and Easily Pivot Between Applications and Missions** 

- Set Up Time: < 5 Minutes
- Switch Application Time: < 2 Minutes

#### **Custom Applications Available**

## **VIPER 3U-VPX-14 SPECIFICATIONS**

SIZE, WEIGHT AND POWER	
Dimensions (L x W x H)	170.6 mm x 100 mm x 23.4 mm per ANSI/VITA 65.0 Spec
Weight	1.1 lb
Input Power	12 VDC
Output Power	10 mW
Power Consumption	12 W (typical) 25 W (max)

#### INTEGRATED TECHNOLOGY

Instantaneous Bandwidth/Channel (8 Rx/Tx Channels)	RX: 56 MHz TX: 40 MHz
GPS	External Antenna Front Panel Connector (optional)
General Purpose Processor (GPP)	Freescale i.MX6 Quad-Core Processor @ 1.0 GHz / core
Field Programmable Gate Arrays (FPGA)	Xilinx Kintex <sup>®</sup> UltraScale <sup>™</sup> KU115-2I

DURABILITY		
MIL-STD-810G	Method 501.5, Procedure II	High Temperature
MIL-STD-810G	Method 502.5, Procedure II	Low Temperature
MIL-STD-810G	Method 503.5, Procedure I-C	Temp Shock
MIL-STD-810G	Method 507.5, Procedure II	Humidity
MIL-STD-810G	Method 514.6, (Comp Wheel Vehicle)	Vibration
Operating Temperating	ature	-40°C to 70°C

SUPPORTED TECHNOLOGIES AND FREQUENCY BANDS		
Push-To-Talk Radio	100 - 600 MHz	
GSM	380, 450, 480, 710, 750, 810, 850, 900, 1800, and 1900 MHz	
UMTS	700, 800, 850, 900, 1700, 1800, 1900, 2100, 2600 and 3500 MHz	
LTE	Bands: 1-14, 17-28, 30-31, 65-66, and 68	
CDMA2K	450, 800, and 1900 MHz	
WiMAX	2300, 2500, and 3500 MHz	
TETRA	350-500 and 875 MHz	
DMR	100 MHz - 1GHz, VHF, UHF350, UHF1, UHF2	
Wi-Fi	2400 MHz	

#### **CONNECTIVITY AND CUSTOM CONNECTIONS**



- OpenVPX VITA 65 and 67.3
- Slot Profile: SLT3-PAY-1F1U1S1S1U1U2F1H-14.6.11-4
- Module Profile: MOD3-PAY-1F1U1S1S1U1U2F1H-16.6.11-9
- Control Plane: 1000BASE-KX
- Data Plane: 10GBASE-KR, 40GBASE-KR4
- Expansion Plane: PCle Gen3 x4
- P2: 14-pin SMPM RF, B1-B4 and D1-D4 connected

# For more information or to order the Viper 3U-VPX-14 please contact: **ATInfo@motorolasolutions.com**

The information and specifications provided are for informational purposes and are subject to change without notice.

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Sensor Open Systems Architecture

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