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™ alignment and is implemented in the OpenVPX™ 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



TACTICAL LTE NETWORK

Stand-alone, high-bandwidth LTE data link



GRAPHICAL RECORD I/Q AND PLAYBACK

USER CUSTOMIZED: 70 MHz - 6 GHz



RAPIDLY DEPLOYABLE BASE STATION

GSM, CDMA2K, UMTS, and LTE-FDD



ARTIFICIAL INTELLIGENCE SURVEY

GSM, CDMA2K, UMTS, and LTE



PUSH TO TALK and CYBER

UHF and VHF



ROCKSLIDE

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)

RX: 56 MHz TX: 40 MHz External Antenna
External / wreathing
Front Panel Connector (optional)
Freescale i.MX6 Quad-Core Processor @ 1.0 GHz / core
Xilinx Kintex® UltraScale™ KU115-2I

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