

## DYNAMIC SPECTRUM SOLUTION (DSS)

3U VPX spectrum dominance solution enabling dismount, airborne and ground-based operations

### Features:

- 3U VPX Open Hardware Form Factor
- Xilinx RFSoc based transceiver
- Swappable RF conditioning modules for customized applications
- Up to 20 GHz instantaneous receive and transmit capability
- Software upgradable in the field
- Field Programmable
- Applications
  - ▶ Enable effective deployment of 5G wireless networks
  - ▶ Resolve propagation issues in highly contested environments
  - ▶ Unmanned system, dismount, vehicle and airborne platforms
  - ▶ Software Defined Radio transceiver
  - ▶ Electronic Warfare and spectrum monitoring
  - ▶ Analog data recording and playback
  - ▶ Multimode data acquisition

### Mission Capabilities:

- Passive RF collection
- Counter C2 and communications
- Deception
- Decoy
- Electronic attack
- Cyber electronic attack
- Electronic protection
- Electronic support

### Specifications:

Input Power: 12V – 50V  
Size: 12.1" x 6" x 4.25"  
Weight: 8.3 lbs

### Interfaces:

- USB 3.0
- Gigabit Ethernet

### Environmental

- Operating temperature: -40 C – 60 C
- Cooling: conduction
- Designed to meet MIL-STD-810G

### Field Programmable Gate Array

- Standard: Xilinx Zynq UltraScale+ RFSoc XCZU27DR
  - ▶ Analog Inputs
    - Quantity: 8
    - Sampling rate: 4 GHz
    - Resolution: 12-bits
  - ▶ Analog Outputs
    - Quantity: 8
    - Sampling rate: 6.4 GHz
    - Resolution: 14-bits

- Option -03: Xilinx Zynq UltraScale+ RFSoc XCZU47DR

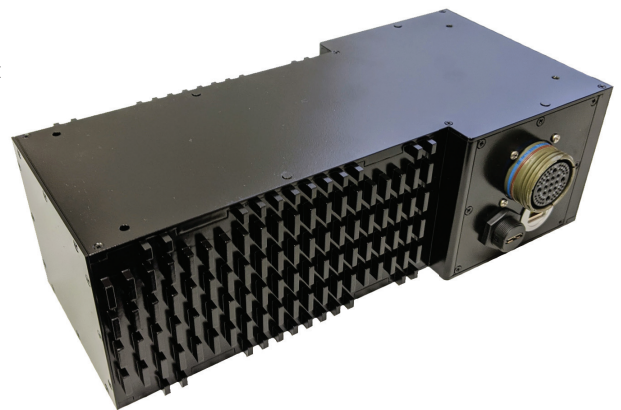
- ▶ Analog Inputs
  - Quantity: 8
  - Sampling rate: 5 GHz
  - Resolution: 14-bits
- ▶ Analog Outputs
  - Quantity: 8
  - Sampling rate: 10 GHz
  - Resolution: 14-bits

### System Memory

- Processing System: 4GB 2400 MHz DDR4
- Programmable Logic: 4GB 2400 MHz DDR4

### Non-Volatile Memory:

- 64GB SD Card
- 2Gb QSPI



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