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

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