

# **GRIMM**<sup>™</sup>

GLOBAL | RF | INTERDICTION | MULTI-MISSION

### Small form factor spectrum dominance solution enabling direction finding (DF), geolocation and electromagnetic attack (EA) missions on unmanned systems

GRIMM<sup>TM</sup> is a compact, high-performance spectrum dominance solution designed for real-time geolocation and direction-finding of adversary signals and emitters of interest.

Engineered for low size, weight, power and cost (SWaP-C), this payload delivers unparalleled situational awareness, intelligence support and force protection capabilities. GRIMM<sup>TM</sup> empowers advanced operations across diverse environments around the world, including contested electromagnetic spectrum scenarios.

### **Mission Application**

- Military operations and national security.
- Counterterrorism and counternarcotics.
- Intelligence, surveillance and reconnaissance (ISR).
- Border security and law enforcement.
- Electromagnetic warfare (EW), EA and RF-enabled cyberspace operations.

### **Mission Types**

- Passive detection, identification, and DF/geolocation of emitters
- Electromagnetic attack including decoy, radar and C2.
- Spectrum recording and data logging on internal HDD.

### **Platform Integration**

- Plug and play with all MOD payload compliant platforms.
- Rapid integration with unmanned platforms (UAS, USV, UUV and high altitude platforms).
- Remotely operable with automated collection modes.
- Conforms to VITA 49 and JICD open standards.
- IATT certified.
- Operator configurable SOI/emitter list for adaptation to new/emerging threats.

#### **Advantages**

- Force Protection and Threat Awareness: Enables rapid detection and location of hostile communications, radar and other electronic threats from unmanned platforms.
- Scalable and Modular: Adaptable for standalone or networked operations, enhancing battlefield coordination.







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#### **Specifications**

System Specifications	
Input Power	18V – 36V
Size	6.3" × 4.3" × 1.5"
Weight	1.9 lbs
Power Draw	40W max
RF Specifications	
ES Front End	10 MHz – 18,000 MHz: 1,000 MHz IBW
EA Front End	10 MHz - 6,000 MHz: 5,990 MHz IBW
Sampling Rate	5 GSPS
Resolution	14-bits
FPGA	
	Xilinx RFSoC XCZU47DR
System Interfaces	
	Gigabit Ethernet
	100 Gigabit Ethernet
Volatile System Memor	у
Processing System	4GB 2133 MHz LPDDR4
Programmable Logic	4GB 2400 MHz DDR4
Non-Volatile Memory	
	2TB NVMe Solid State Drive
	64GB eMMC
	2Gb QSPI

#### **Features**

- 1U small form factor design; <2 pounds; mod payload compliant.
- Flexible and scalable for many different missions.
- Operates seamlessly in any domain anytime, anywhere.
- 24/7 passive monitoring with ability to
- Conforms to open standard allowing users to override code.
- Interfaces with third-party tools.
- Versatile integration with unmanned/ manned platforms, including highaltitude balloons, manpack and static ground nodes.
- Passive RF detection, direction-finding and geolocation across 10 MHz-18 GHz frequency range.



