

GRIMM

GLOBAL | RF | INTERDICTION | MULTI-MISSION

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

GRIMM is a compact, highperformance 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 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 & 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

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 IBV
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
Volitile System Memory	,
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 transmit.
- 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.

