

“Compact Suite”

1. Brief

“Compact Suite” is a multi-mission integrated Electronic Intelligence and Electronic Warfare system. “Compact Suite” enables domination of a variety of operational scenarios, starting with low footprint deception of specific threats and selectively increasing impact up to intensive engagement of the entire arena.

The low SWaP “Compact Suite” is designed for small platform installations.

The system supports Electronic Intelligence (ELINT) operations alongside state-of-the-art Electronic Warfare capabilities, applicable in various operational scenarios, including self-protection and escort jamming.

2. System Description

2.1. RWR/ESM/ELINT

The RWR/ESM/ELINT section incorporates several digital receiver channels utilizing a superheterodyne configuration.

This section enables electromagnetic activity surveillance for intelligence gathering in addition to the capabilities of building the battlefield situational awareness of the hostile sensors that can threaten the platform or friendly forces.

2.2. Electronic Attack

The EA section is equipped with innovative RF-photonics and DRFM technology, capable of generating advanced EW techniques. On top of the state-of-the-art DRFM channel, the RF-photonics design enables operation in ultra-wide instantaneous bandwidth and sophisticated multi-target scenarios generation without relying on radar signal detection.

Furthermore, our solution is the simultaneous engagement of multiple emitters in a single channel. The threats we cover vary from legacy radars to modern state-of-the-art imaging, multi-sensor, and LPI systems operating in various spectral bands while utilizing complex waveforms.

2.3. RWR/ESM/ELINT Capabilities

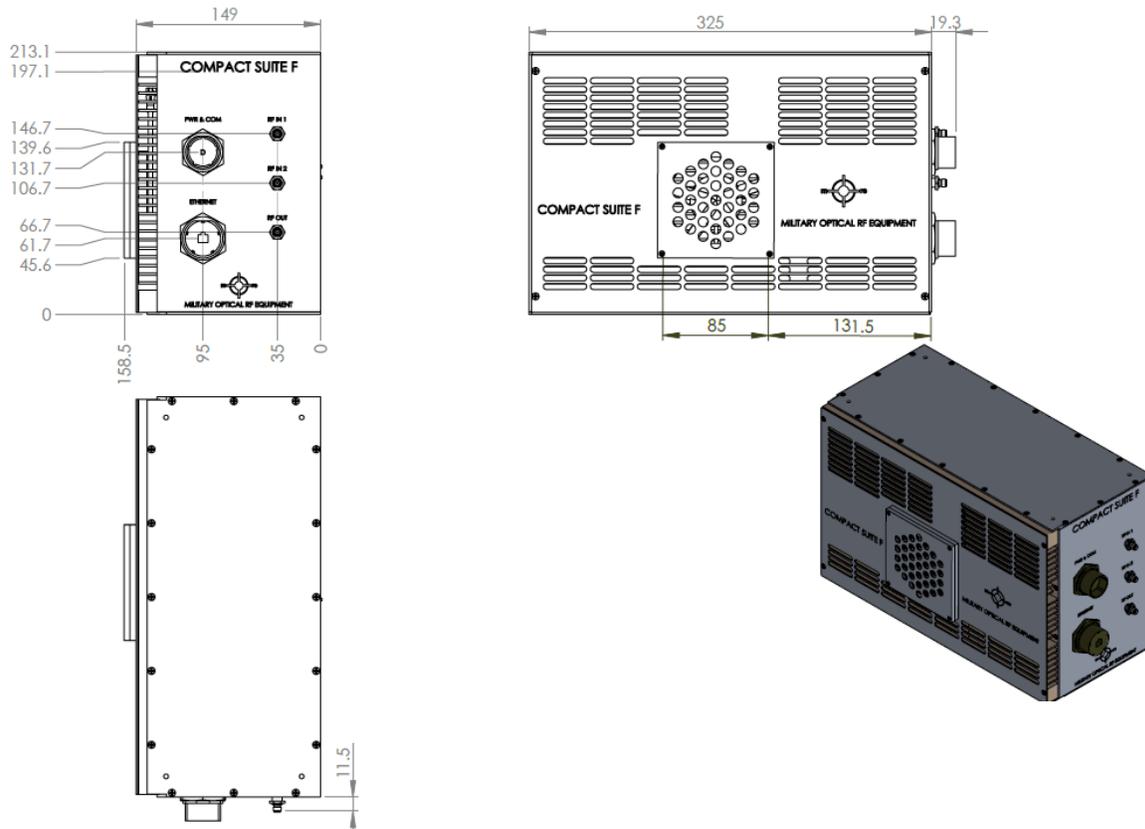
- Situational awareness and real-time creation of Electronic Order of Battle
- High Probability of Interception
- High Sensitivity and Dynamic Range
- Streaming Pulse Descriptor Word
- Selective threats raw data recording for advanced processing capabilities
- Management and control of the Electronic Attack section
- Chaff management control

2.4. Electronic Attack Capabilities

The following techniques can be implemented with or without detection of the threats.

- CRVGPO
- Range Doppler Cover Pulse
- False Targets
- Phase Modulation
- Amplitude Modulation

2.5. Mechanical Dimension



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