

Pit Viper-Air

Low SWaP Payload for Electronic Support, Electronic Attack, and Cyber Missions



Pit Viper-Air (PV-Air) is a modular payload (MP)-compliant payload designed for electronic support, electronic attack, and cyber missions on airborne platforms. PV-Air provides users with a host hardware platform that enables new concepts of operation (CONOPS) out at the tactical edge. This size, weight, and power (SWaP) optimized technology utilizes commercial off-the-shelf (COTS) hardware to provide a rugged, agile, and low-cost hardware platform to host multiple applications.

PV-Air allows a user to run CACI, U.S. Government off-the-shelf (GOTS), and third-party applications. Additionally, PV-Air enhances cointegrated systems by ingesting and processing external sensor data over its gigabit ethernet interface.

As an MP-compliant payload, PV-Air is a plug-and-play capability that can be integrated into any MP-compliant platform. In its current 1U form factor, PV-Air is well equipped to integrate onto Group 1 through Group 3 unmanned aircraft system (UAS) platforms. Its user-friendly graphical user interface (GUI) allows the operator to tailor their app selection and execute collaborative missions from a single platform. PV-Air's compliance to CACI's HADES interface control document (ICD) enables the payload to operate in conjunction with a host of CACI air and ground systems. HADES provides tipping, queuing, network control, and other interoperability functions between different systems.

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For more information about our expertise and technology visit:

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Features

- VHF, UHF, L-band, and S-band frequency coverage
- Integrated 10W amplifier
- Dedicated WiFi effects card
- IP54 environmental rating
- Low size, weight, and power
 - 1U modular payload-compliant form factor
 - Less than 1.5lbs payload weight
 - Adjustable power draw
- Easy-to-use web-based GUI
- Integrates with other CACI equipment via HADES ICD

Recommended Applications

- CACI's SNARE multiprotocol survey tool
- CACI's Duck Blind protocol-based electronic attack platform
- CACI's Ardent Emblem cyber effects architecture
- Third-party applications via Docker

About Pit Viper - Air

PV-Air's high-performance general-purpose processor (GPP) and software defined radio (SDR) speeds capability to the user and more effectively adapts to modern threats. It uses a containerized software architecture to enable rapid switching between mission software bundles.

As a component of a broader ecosystem, PV-Air acts as a force multiplier to more effectively prosecute complex, multi-domain communication networks. Each Pit Viper payload can function independently or be networked together with other HADES compliant systems to tip/cue and aggregate results in a common operating picture.

Pit Viper - Air Specifications

General Specifications	
Frequency Range (Receive)	30 MHz to 6 GHz
Frequency Range (Transmit)	100 MHz to 2.6 GHz
CPU	i7-8665UE (4C, 1.7GHz, up to 4.4GHz)
Memory	32GB DDR4
Storage	512G SSD
Size, Weight and Power Specifications (SWaP)	
Payload Dimensions	1U MP-compliant (7.25"x4.29"x1.5")
Weight	Less than 1.5lbs
Power	6W to 56W*
Environmental Specifications	
Ingress Protection Rating	IP54

*Performance varies based on specific application and is adjustable to platform or mission requirements. Preliminary information is included; specifications subject to change without notice.

This material consists of CACI International Inc general capabilities information that does not contain controlled technical data as defined within the International Traffic in Arms Regulations (ITAR), Part 120.10, or Export Administration Regulations (EAR), Part 734.7-10. (PRR ID459)



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