



Leidos AgilePod® Development and Support

ADVANCING THE AFRL AGILEPOD® THROUGH RAPID FLIGHT TESTING AND EVALUATION

Leidos is the industry leader for system integration and application of open architectures and open standards. Demonstrated through multiple flight test programs with Air Force Research Labs and AFLCMC, Leidos advanced the development of advanced airborne sensors and systems utilizing open architectures. This integration enables collection capabilities to be chosen based on the mission need, rather than on their relationship to other proprietary host platform components.

Leidos, working with the AFRL AgilePod™ and Blue Guardian programs, is helping bring the military from legacy system implementation to an agile, modular, common payload framework to optimize ISR missions. The adaptive AgilePod™ materials solution coupled with the Blue Guardian OMS based architecture allows for combining new technology with current sensors to meet new mission requirements. Additionally, the internally composable Pod design allows for integration onto multiple platforms without any major modifications to the platform, manned or unmanned.



- ▶ Leidos, working with AFRL and AFLCMC, have advanced the scalable, flexible, multi-mission ISR capabilities via flight testing over the last 3 years at WPAFB
- ▶ Modular and scalable integration of sensors to meet mission requirements
- ▶ Demonstrated Standard Electrical and Mechanical interfaces complement the Open Architecture (OMS) environment
- ▶ Full Government Data Rights
- ▶ Reduced development, vendor lock, sustainment and life cycle costs; affordable obsolescence support



LEIDOS SOLUTION

Historically, ISR pods are often designed as a point solution for a specific sensor or suite and are often specific to an aircraft. Leidos has developed mechanical, electrical and C2 adaptors to run between the vendor proprietary and government owned architecture allowing for rapid integration of new technology. This has been demonstrated on various aircraft flying sensors such as FMV, SIGINT, SAR/MTI, and Hyperspectral. Using common aircraft power schemes and mounting structure (BRU mounts) allow for equipment that can be easily configured to create the right pod for the mission. In this manner the ISR system becomes truly agnostic to the host platform and can be reconfigured to a completely different mission set between sorties.



Previous flight testing with AFRL Sensors Directorate and AFLCMC have taken the original prototype and performed various enhancements through programs such as:

- ▶ **Harvest Reaper:** Fly various sensor phenomenologies and demonstrate on Mallet MQ-9
- ▶ **Combat Lancer:** Enhanced 30L AgilePod™ demonstrating "Lab in the Sky" capabilities for AFRL/RYZT
- ▶ **EBAS:** 16" AgilePod™ designed to provide self-protection for MQ-9

ABOUT LEIDOS

Leidos is a Fortune 500® information technology, engineering, and science solutions and services leader working to solve the world's toughest challenges in the defense, intelligence, homeland security, civil, and health markets. The company's 38,000 employees support vital missions for government and commercial customers.

FOR MORE INFORMATION

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