

FireFly™ Autopilot

Low SWaP Flight Management System

ADSYS
CONTROLS INC.

Adsys Controls' FireFly™ autopilot is a small form factor full featured flight management system with integrated sensor and wireless communication packages.

The low size, weight and power make FireFly™ ideal for small UAS platforms demanding the ultimate in precision flight control.



Guidance and Flight Control

- » Fixed Wing Standard Configuration, Flying Wing, Airship, Rotorcraft and Multi-copter Support
- » Precision Flight Control
- » Pitch/Bank Limiting
- » Programmable Mission Plans
- » Contingency Routing (Lost Comm, Engine Out, Emergency Condition, etc.)
- » Autonomous Path Reversal (for Lost Comm)
- » Waypoint Following
- » Manual Overrides for Heading, Speed, Altitude, and Climb Rate
- » Go-to Waypoint
- » Loiter Patterns

Specifications

- » 200 grams (0.45 lb) Total Weight
- » < 3 Watts
- » 4.0" x 2.5" x 2.0" Sealed Enclosure

Processor and Peripherals

- » 16 MB Flash Memory
- » 32 MB DDR-SDRAM
- » CAN Bus
- » 10/100 Ethernet
- » RS-232
- » USB
- » Queued DMA SPI (QSPI)
- » High-Speed Synchronous Serial Interface (SSI)
- » Up to 18 General Purpose I/O Channels
- » Onboard Attitude & Heading Reference System (AHRS)
- » Air Data Sensing

Expandable I/O and Processing

- » Onboard GPS with WAAS DGPS
- » Integrated 900 MHz or 2.4 GHz Radio

Adsys Controls provides solutions for precision control systems, advanced electro-optical systems, laser systems, modeling and simulation, and unmanned aerial systems for military and commercial markets. From electronics design, embedded RT software, and image processing to game-changing laser and electro-optical systems for ISR&T, weapons, communication, and navigation, Adsys Controls provides state-of-the-art solutions for the most challenging problems.

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Adsys Controls, Inc. makes no warranty or representation regarding its products' specific application suitability and may alter, without notice, the specification of our products described in this brochure.

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