



SkyView EasyPilot

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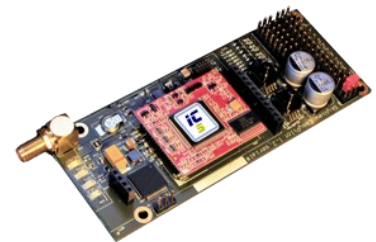
We offer two different products which can be combined for a complete solution to get your unmanned vehicle flying. The solution consists of both a autopilot to steer the vehicle in-air and a software guaranteed to work with the autopilot. Both the software and the hardware communicates through open standards meaning no more hassle with vendor specific protocols!

The solution is a very cost-effective solution, and is aimed for disposable unmanned vehicles. This is achieved through agile and responsive development, which gives the customer the most value for the money.

The solution consists of the following components

Hardware - EasyPilot

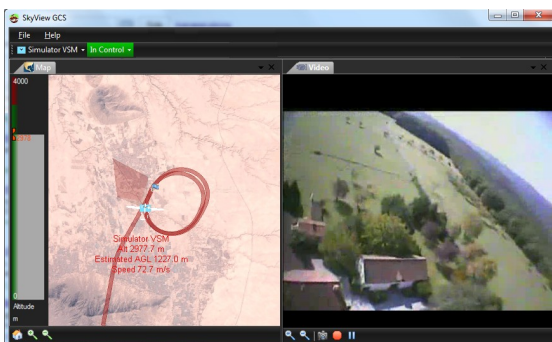
The hardware solution consists of a easy to use autopilot for unmanned vehicles called SkyView EasyPilot. The hardware consists of COTS components and includes integrated components necessary to control a vehicle, including GPS navigation, a long range modem, expansion ports. Ground Modem is available as option. The on-board software has several mathematical algorithms integrated, allowing it to make much better use of its sensors and the data it collects for a safer and more efficient flight.



Software - SkyView GCS

SkyView GCS is a very easy to use Ground Control Station software. The GCS software together with the SkyView EasyPilot does all the background processing needed to fly the vehicle.

SkyView GCS support modern operating systems such as Windows, Mac OS X and various Linux systems.



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SkyView

EasyPilot

Specifications

- Board size 113 mm x 45 mm x 20 mm
- Ca. 48 gram + long range modem
- 9 DoF digital Inertial Measurement Unit , 1200 degrees/s maximum
- Internal 3-axis magnetometer
- Dual processor for
 - Sensor and data processing (IMU, Magnetometer, GPS, Altimeter, Airspeed sensor, etc)
 - Flight management and communication (Control or Navigation algorithms, Payload management, Communications, etc)
- Altimeter sensor (Absolute pressure), 0 - 15000 m
- Airspeed sensor (Dynamic pressure), 0 - 250 knots
- GPS, position accuracy < 2.5 m / Update rate 10 Hz.
- 7x analog ports (12 bits)
- 7x digital IO ports
- 1x I2C bus
- 1x serial port for payloads
- 1x serial port for payloads or data storage
- 1x serial port for payloads or servo output
- 12 directly connectable servos (8 optional)
- Up to 36 connectable servos with an external boards
- Up to 100 Hz servo update rate
- Input voltage ranging from 4.5V to 28V
- Could be powered by the 5V servos. Requires no extra wiring.
- 3.3 and 5V internal supplies for servos, and external payloads
- Power consumption is about 400mA at 5V input with modem active
- ESD protection on all inputs and outputs
- -20° - 85° C (The plug-in modem 0-70° C)
- 2GB on-board storage is available on an interchangeable storage card
- Multiple battery monitoring capability
- Payload control capability
- Control by Joystick or SkyView GCS
- Available in 2.4 GHz, 869 MHz and 900 MHz versions.
- Optional Ground Modem and SkyView GCS.



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