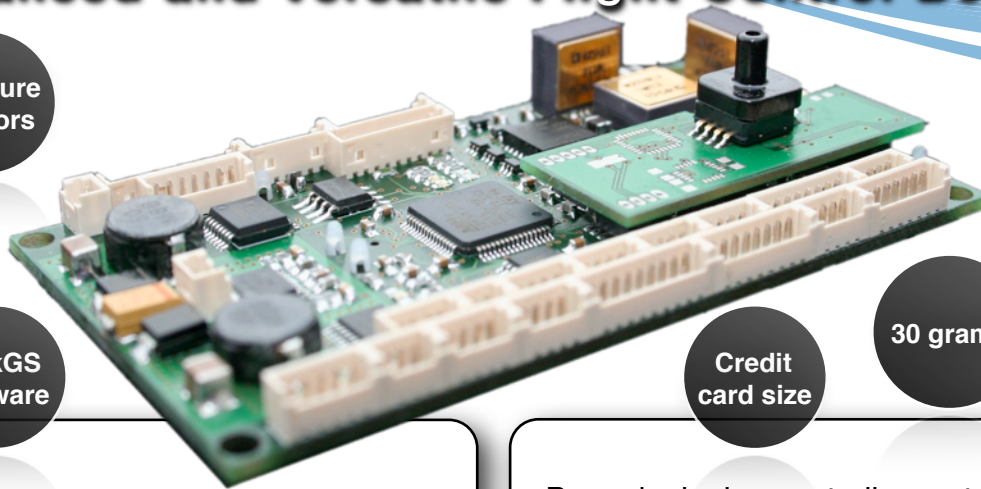


LinkBoard

Advanced and Versatile Flight Control Board



Pressure sensors

External sensors support

LinkGS software

Credit card size

30 grams

Integrated IMU

Physical characteristics

- Weight: approx. 30 grams (1.06 ounce)
- Dimensions: 80 x 45 x 23 mm (3.1 x 1.7 x 0.9 in)

Integrated sensors

- 3-axis accelerometer ($\pm 2/\pm 6$ g range)
- 3 rate gyroscopes
- Absolute pressure sensor
- Differential pressure sensor
- 4-channel 12bit 1MSPS A/D converter

Supported external sensors

- GPS receiver
- USB camera
- Laser range finder
- Ultrasonic range finder
- 3-axis magnetometer

Power supply

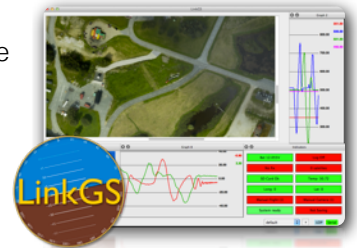
- Single power input: 7-20V
- Two power outputs: 3.3V@2A and 5V@2A

Base dual microcontroller system:

- 2 x Cortex™-M3 @ 72MHz
- Sensor fusion
- Fully configurable PID control system
- Configurable mixer, sensors
- SD card high speed data logging @ 500Hz
- Interfaces:
 - 7 x PWM capture channels for servo inputs
 - 4 x RS232 TTL serial interface
 - 2 x I2C and SPI interface
 - 6 x general purpose input-output lines
 - 10 PWM servo output channels
 - 8MB configuration flash memory
 - CAN Bus

LinkGS

LinkGS is a fully customizable user interface for in-flight monitoring as well as for configuring of the LinkBoard.



User Application Processing Units: Two Gumstix® Overo™ COM modules

- OMAP 3530 application processor:
 - 600 MHz ARM Cortex™-A8 Core
 - 520 MHz TMS320C64x+™ DSP Core
- 256 MB RAM, 256 MB Flash Memory
- Running Embedded Linux OS
- Interfaces:
 - USB 2.0 OTG interface
 - I2C interface
 - microSD card interface
 - 2 x RS232 TTL serial interface
 - Wifi 802.11(g) and Bluetooth®

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