

Processors and Interfaces

Sensor MCU – Cortex™-M3 @ 72MHz

- 7 x PWM capture channels for servo inputs
- 2 x RS232 TTL serial interface
- I2C and SPI interface
- JTAG programming interface
- 1 x general purpose input-output line

Control MCU – Cortex™-M3 @ 72MHz

- 10 PWM servo output channels
- 2 x RS232 TTL serial interface
- JTAG programming interface
- 4 x general purpose input-output lines
- 8MB flash memory
- SD/MMC card interface
- CAN Bus

Two Gumstix® Overo™ COM modules

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

Integrated sensors

- 3-axis accelerometer with selectable $\pm 2/\pm 6$ g range
- 3 rate gyroscopes
- Absolute pressure sensor
- Differential pressure sensor
- 4-channel 12bit 1MSPS analog to digital converter (one reserved)

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

Top view



Bottom view



Physical characteristics

- Weight: approx. 30 grams (1.06 ounce)
- Dimensions: 80 x 45 x 23 mm (3.15 x 1.77 x 0.9 inch)