



**GPS NEO 6M**

**Features:**

- Standalone GPS receiver
- U-blox NEO-6M GPS module
- Under 1 second time-to-first-fix for hot and aided starts
- SuperSense™ indoor GPS: -162 dBm tracking sensitivity
- Anti-jamming technology
- Support SBAS (WAAS, EGNOS, MSAS, GAGAN)
- u-blox 6 S0 channel positioning engine with over 2 million effective correlators
- Timepulse
- 5Hz position update rate
- Operating temperature range: -40 TO 85°C
- UART TTL socket
- EEPROM to store settings
- Rechargeable battery for Backup
- Build in 18K18mm GPS antenna
- RoHS compliant

**Specs:**

- Dimension: 22mmX30mm
- Height: 13mm
- Hole dia.: 3mm
- Weight: 12g



**SD Card Breakout**

This breakout board will allow you to breakout the SDMMC socket to a standard .1" 10-pin header



Schematic and data sheet are provided

1GB of SD card will be provided

**Pressure Sensor**

This is a breakout board for the Bosch BMP180 high-precision, low-power digital barometer. The BMP180 offers a pressure measuring range of 300 to 1100 hPa with an accuracy down to 0.02 hPa in advanced resolution mode. It's based on piezo-resistive technology for high accuracy, ruggedness and long term stability. These come factory-calibrated, with the calibration coefficients already stored in ROM. What makes this sensor great is that it is nearly identical to its former rev, the BMP085! This breadboard-friendly board breaks out every pin to a 5-pin 0.1" pitch header. VCC can be from 1.8V to 3.6V and is 5V tolerant; we typically run it on a clean, regulated 3.3V supply. The analog and digital supplies (VDDO and VDDA) are tied to a single header pin, but are separately decoupled. It connects to a microcontroller via PC bus (also known as TWI, or on the Arduino, the "Wire" library).

**Features:**

- Digital two wire (PC, TWI, "Wire") interface
- Wide barometric pressure range
- Flexible supply voltage range (1.8V to 3.6V)
- Ultra-low power consumption
- Low noise measurements
- Factory-calibrated
- Includes temperature sensor
- Low-profile with a small footprint



Schematic and data sheet are provided

**Arduino Pro Mini 328 - 5V/16MHz**

Dimensions: 0.7x1.3" (18x33mm)

**Features:**

- ATmega328 running at 16MHz with external resonator (0.5% tolerance)
- 0.8mm Thin PCB
- USB connection off board
- Supports auto-reset
- 5V regulator
- Max 150mA output
- Over current protected
- Weights less than 2 grams!
- DC Input 5V up to 10V
- On board Power and Status LEDs
- Analog Pins: 8
- Digital I/Os: 14



Schematic Provided



<http://www.the-rocketman.com/recovery.html>

**Payload Recovery Parachutes are made of Low-porosity 1.1 Rip-stop Nylon.**

Adjustable descent (pat#5472394)

Quick, soft, reliable deployment

No shock cord required

Reinforced with nylon webbing

Tubular shroud lines sewn over the top of the canopy

Positive controlled deployment

4 shroud lines reduce chances of tangling

More stable than cross-form or conical chutes

Professionally designed at a fair price

Made in the USA

The schools will have a 3ft parachute