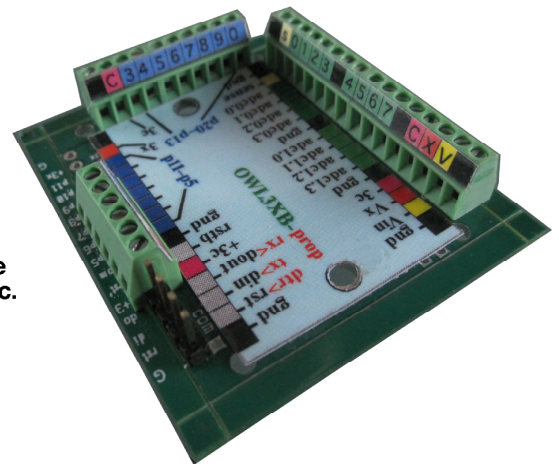
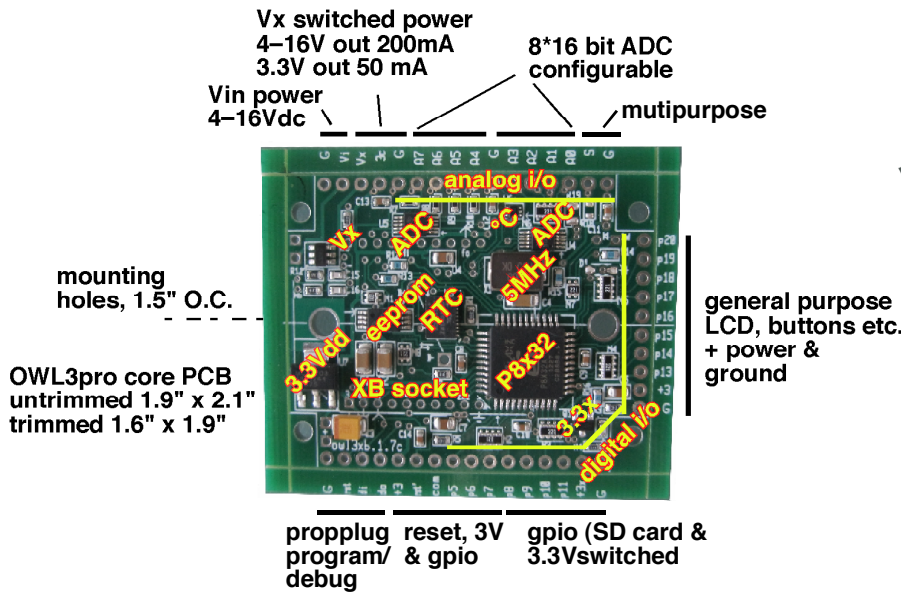


EME System's OWL3pro, version 1.7

OWL3pro core module:

- Parallax “propeller” microcontroller, 32 bit, 8 core, capable of multiple simultaneous threads for sensor and communications interface and data processing. Multiple clock speeds, 80MHz for high speed down to 20kHz, 20µA for long battery life. Serial programming and debugging. 64kbyte eeprom program and data memory. Library programming objects. See <http://www.parallaxsemiconductor.com> and obex.parallax.com
- 8 channel, 16 bit analog to digital converters suitable for thermocouple or other low level measurements, single ended or differential down to 0.256V up to 3.3V full scale, also on-board reference temperature sensor. 8 channels single ended, 4 differential
- 5ppm temperature compensated real time clock, with battery backed scratchpad memory and alarms.
- 3.3V power, also switched power for external sensors. and SD card.
- general purpose input/output interface from microcontroller.
- 1st level i/o protection.



Core module with optional Phoenix terminals installed, and header for serial programming

Core module in sandwich, with SD card below and XBee in socket, and terminals for thermocouples.

Main OWL3pro accessories:

- standard SD card via stacking circuit board.
- on board socket for XBee wireless.
- breakout terminals or headers.
- i2c LCD screen and button module.
- enclosure and mounting options.
- Li-ion battery and charger.
- application programming.

