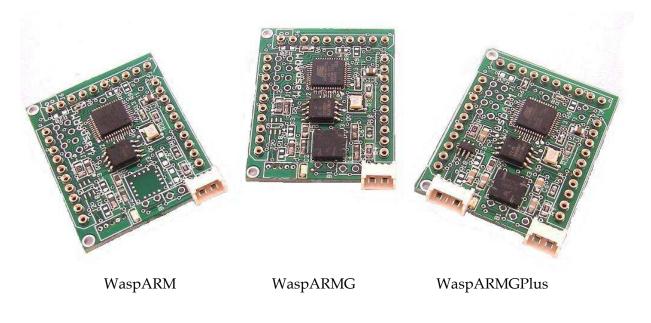


WaspARM Embedded ARM7 Processor

Technical Reference Brief

PCB Rev 1.0

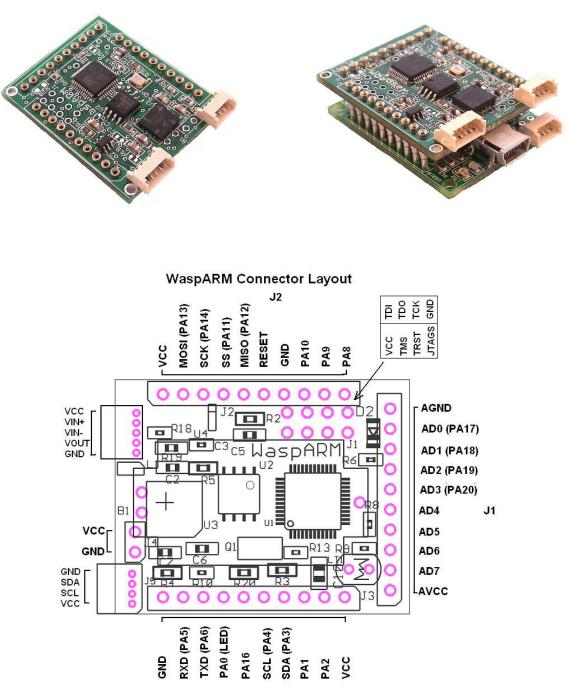


www.soc-robotics.com



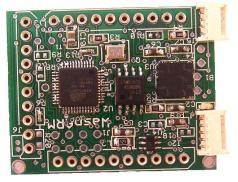
Introduction

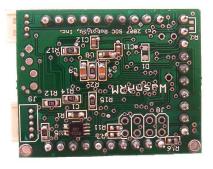
The **WaspARM** is a battery powered embedded processor with an ARM7 processor (AT91SAM7S32) running at 48MHz, 1Mx8 Serial Flash, 3 axis accelerometer (1.5,2,4,6G), 16 bit A/D and 16 bit DAC. The expansion port pins are on 0.1" spacing. The **WaspARM** is programmed via the debug port using SAMBA or via JTAG using an ATMEL SAM-ICE or JTAG10 with gdb.

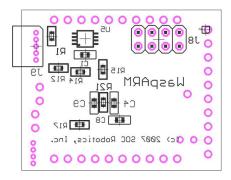






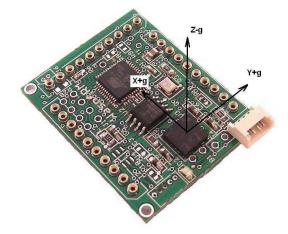








3-Axis Accelerometer Axis Orientation

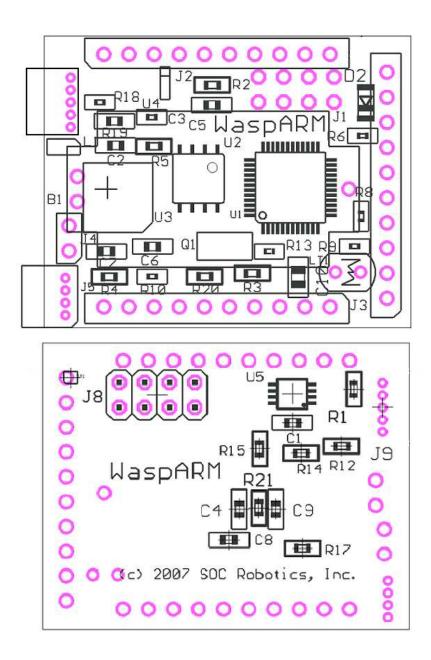




Electrical and Mechanical Description

Component Layout

Components are mounted on both sides of the board. Not all components may be mounted. See the section on optional components for more information.





Electrical Specifications

Electrical

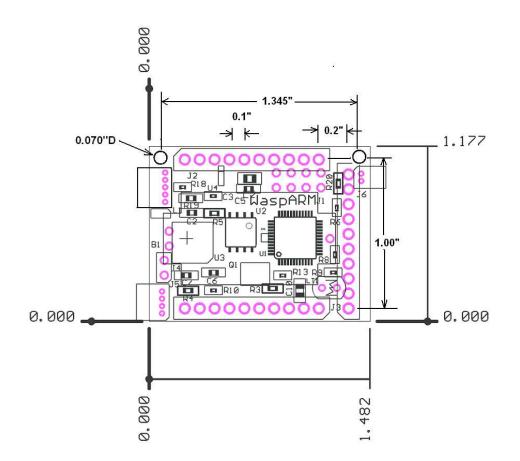
Input power: 3-3.3VDC @ 30ma Sleep Mode: 0.7ma

Mechanical

Dimensions:1.47x1.18 in (one mounting hole)Weight:6 grams

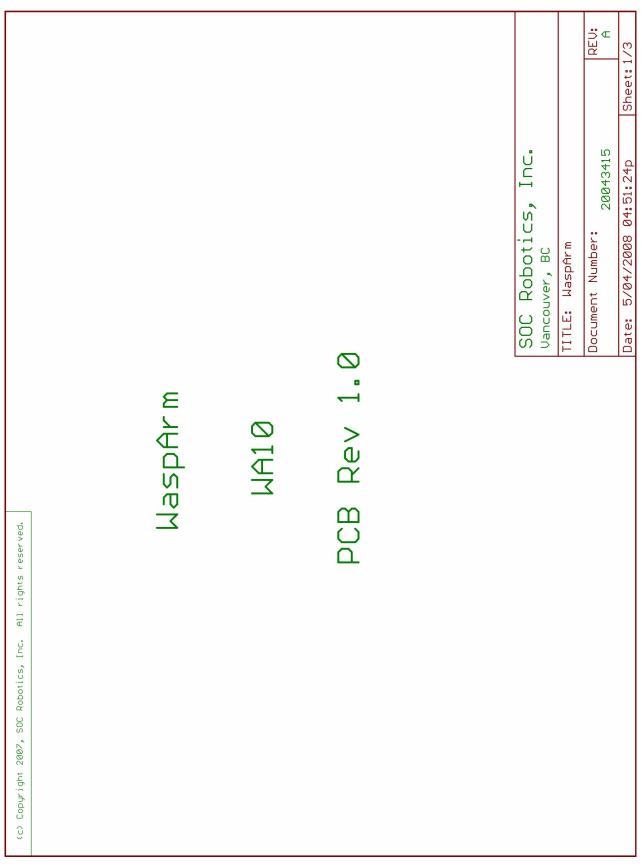
Mechanical Dimensions

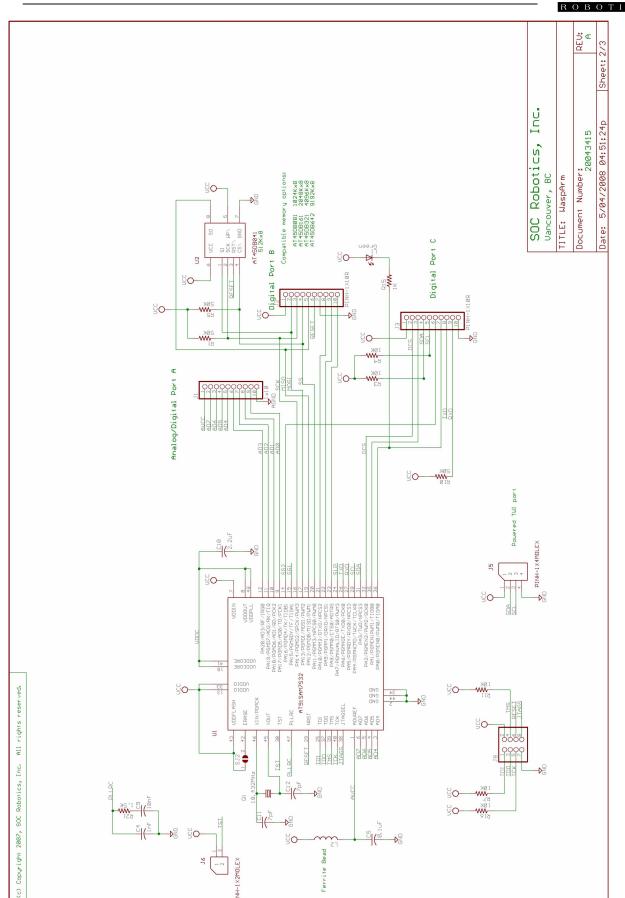
Board dimensions are stated in inches. Connectors J1, J2 and J3 are positioned on 0.1" pin spacing so the WaspARM is easily mounted directly on any standard 0.1" prototyping board.



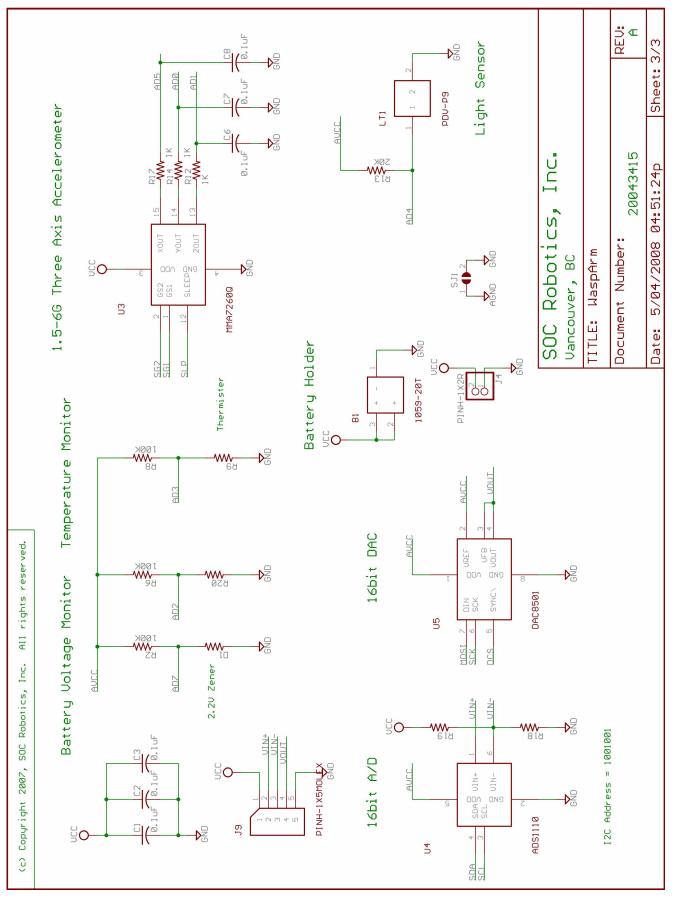


WaspARM Circuit Schematic









SOC Robotics, Inc.





Notes: