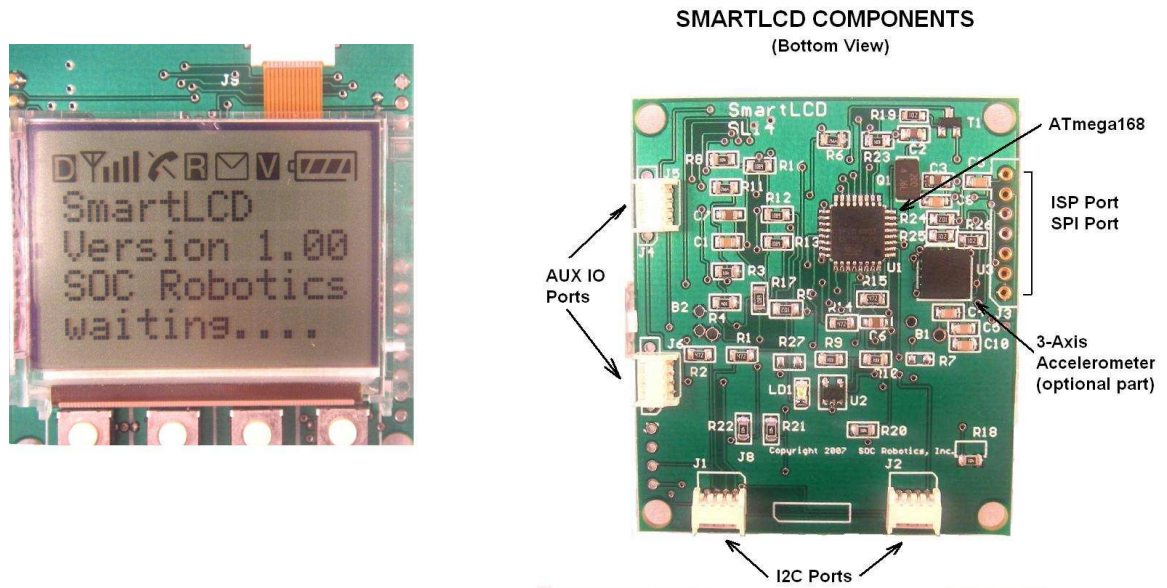
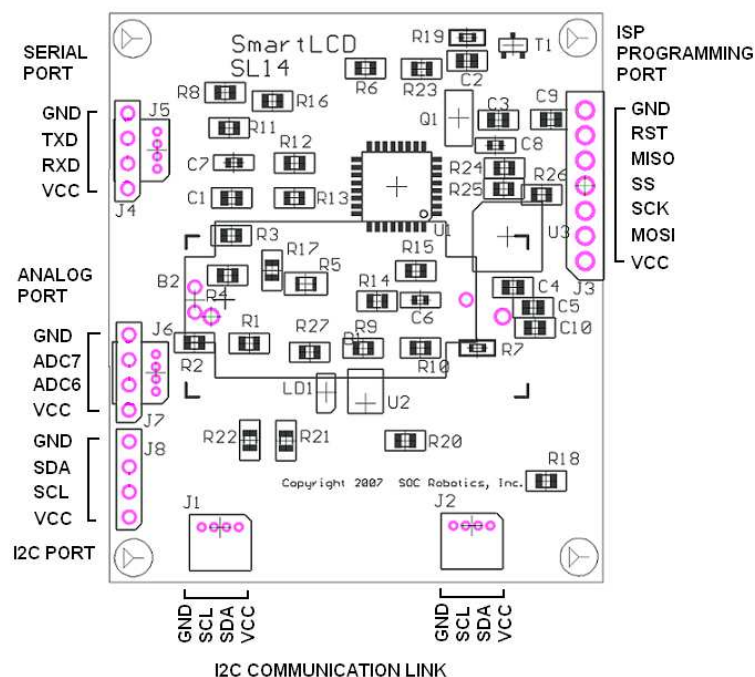


## SmartLCD Connector Assignment and Schematics

The SmartLCD is a small form factor LCD display board with an on-board AVR Atmega168 processor. The Atmega168 runs off an internal 8MHz oscillator but an 32.768KHz crystal is connected to the clock input pins providing a clock reference. The product is shipped with a sample application burned into on chip flash. The sample application drives the LCD, sets up the real time clock and includes rudimentary code for serial communications and LCD control. The board is designed to operate from 2.5-3.6VDC – an optional onboard voltage regulator allows the board to work at 5VDC. Project files compatible with the ICCAVR C IDE are included on the supplied CD.

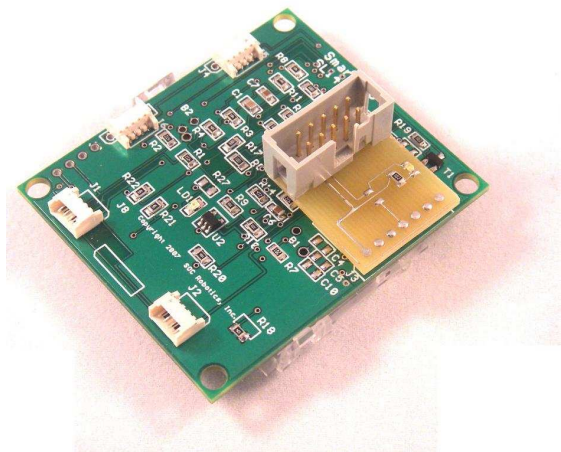


### SMART LCD CONTROLLER



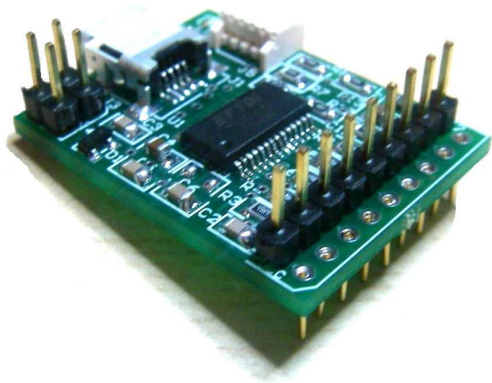
# SmartLCD Connector Assignment and Schematics

The included CD contains two project files with complete source code to drive the LCD display and interface to the 3-Axis Accelerometer (optional part). The project files are a good starting point for your own application development.

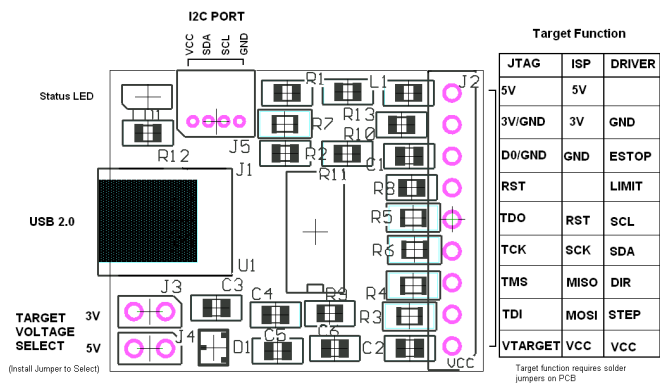


The picture above shows the SmartLCD with a CISP programming adapter installed. The CISP converts the SmartLCD’s ISP port to a 10 pin Atmel compatible programming port. The SmartLCD can be programmed using the ISP10 Programming Adapter.

The **USB-ISP** is an optional ISP programming adapter that attaches directly to the SmartLCD without the need for the CISP and provides an optional programming method.



USB ISP/JTAG CONNECTOR LAYOUT



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SmartLCD Display Controller

with

Optional 3-Axis Accelerometer

SOC Robotics, Inc.  
Vancouver, BC

TITLE: SmartLCD

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Date: 3/07/2008 02:48:12p

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# SmartLCD Connector Assignment and Schematics

