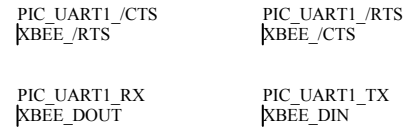
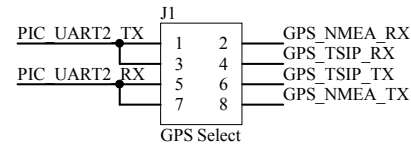


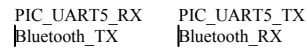
PIC UART-1 Interface (XBee Pro)



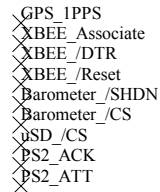
PIC UART-2 Interface (Trimble GPS Module)



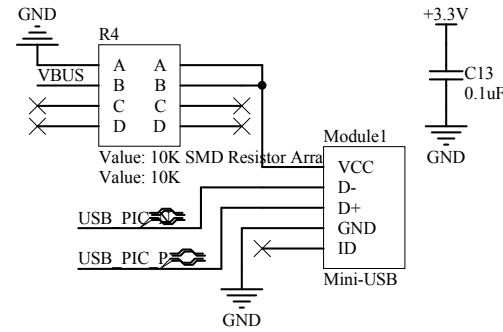
PIC UART-5 Interface (Bluetooth Module)



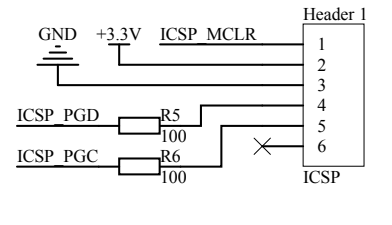
PIC Control Lines



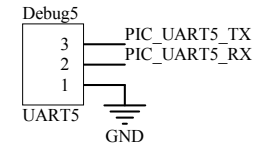
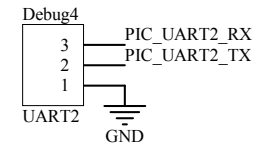
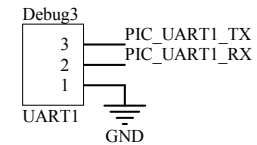
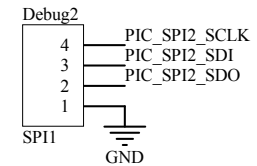
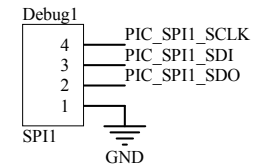
PIC32 USB Interface



In-Circuit Serial Programming Interface



Communication Debug Headers



Title

Size

A

Number

Date:

4/10/2012

File:

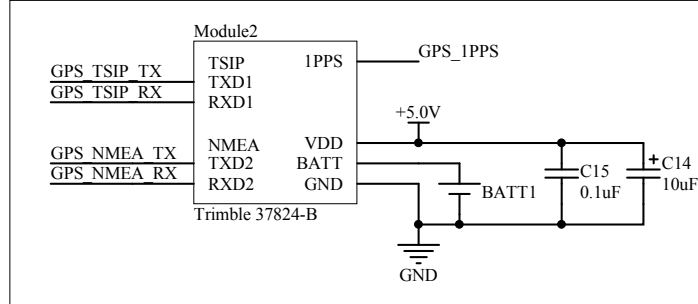
C:\Users\...\Connectors.SchDoc

Revision

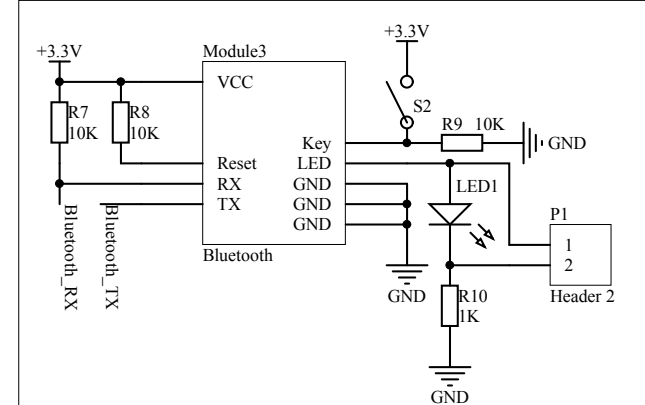
Sheet of

Drawn By:

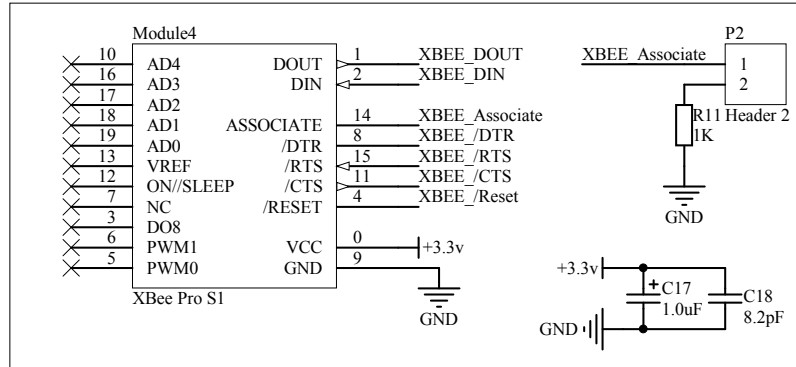
Trimble GPS 9600bps TSIP / 4800bps NMEA



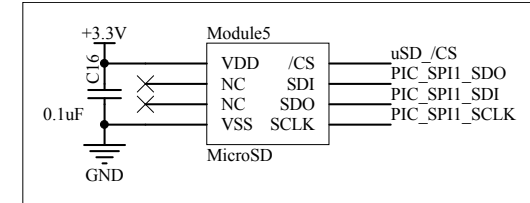
Bluetooth Serial Module UART Interface (9600bps Default)



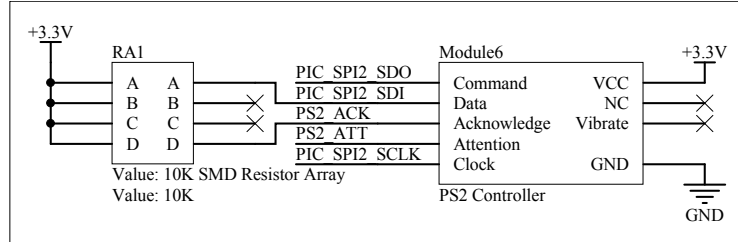
XBee Module



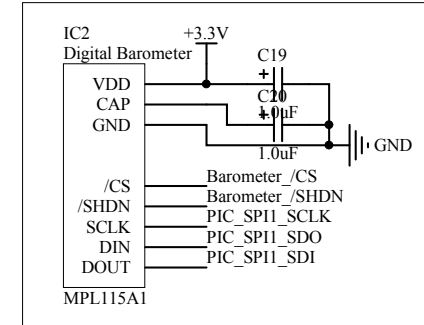
MicroSD Card 25MHz SPI Interface



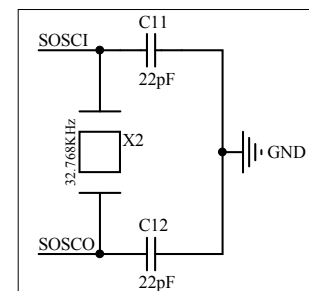
PS2 Wireless Controller Interface 250KHz SPI Interface



Barometric Sensor 8MHz SPI Interface



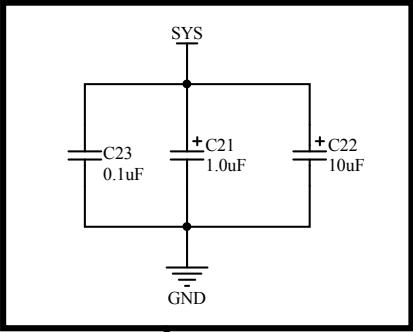
Title		
Size	Number	Revision
A		
Date:	4/10/2012	Sheet of
File:	C:\Users\...\Modules.SchDoc	Drawn By:



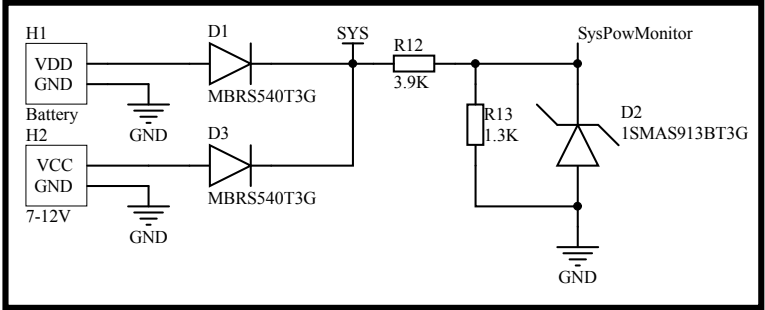
Notes:
- VCAP is a 6V 1-Ohm Tantalum Capacitor

Title		
Size A	Number	Revision
Date:	4/10/2012	Sheet of
File:	C:\Users\ \PIC Processor SchDoc	Drawn By:

3S Lipo Battery



Power Input, Selection, and Monitoring

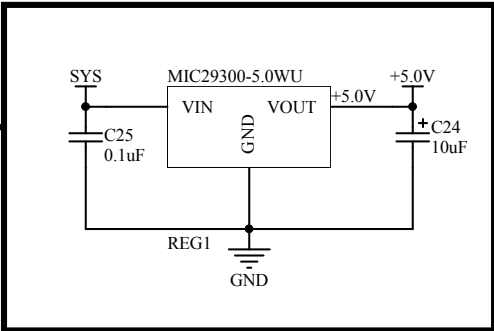


Power Rails:

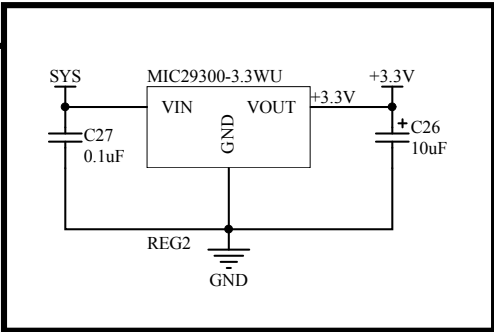
+5.0V Rated: 3000mA
+3.3V Rated: 3000mA

+ 6 to +11.7 VDC

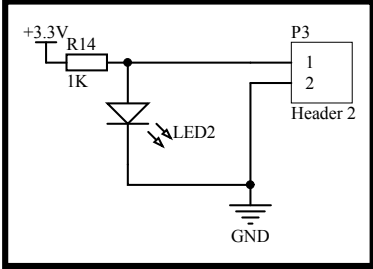
Battery -> 5.0 VDC



Battery -> 3.3 VDC



Power Indicator with External LED



Title		
Size A	Number	Revision
Date:	4/10/2012	Sheet 1 of
File:	C:\Users\...\Power.SchDoc	Drawn By: