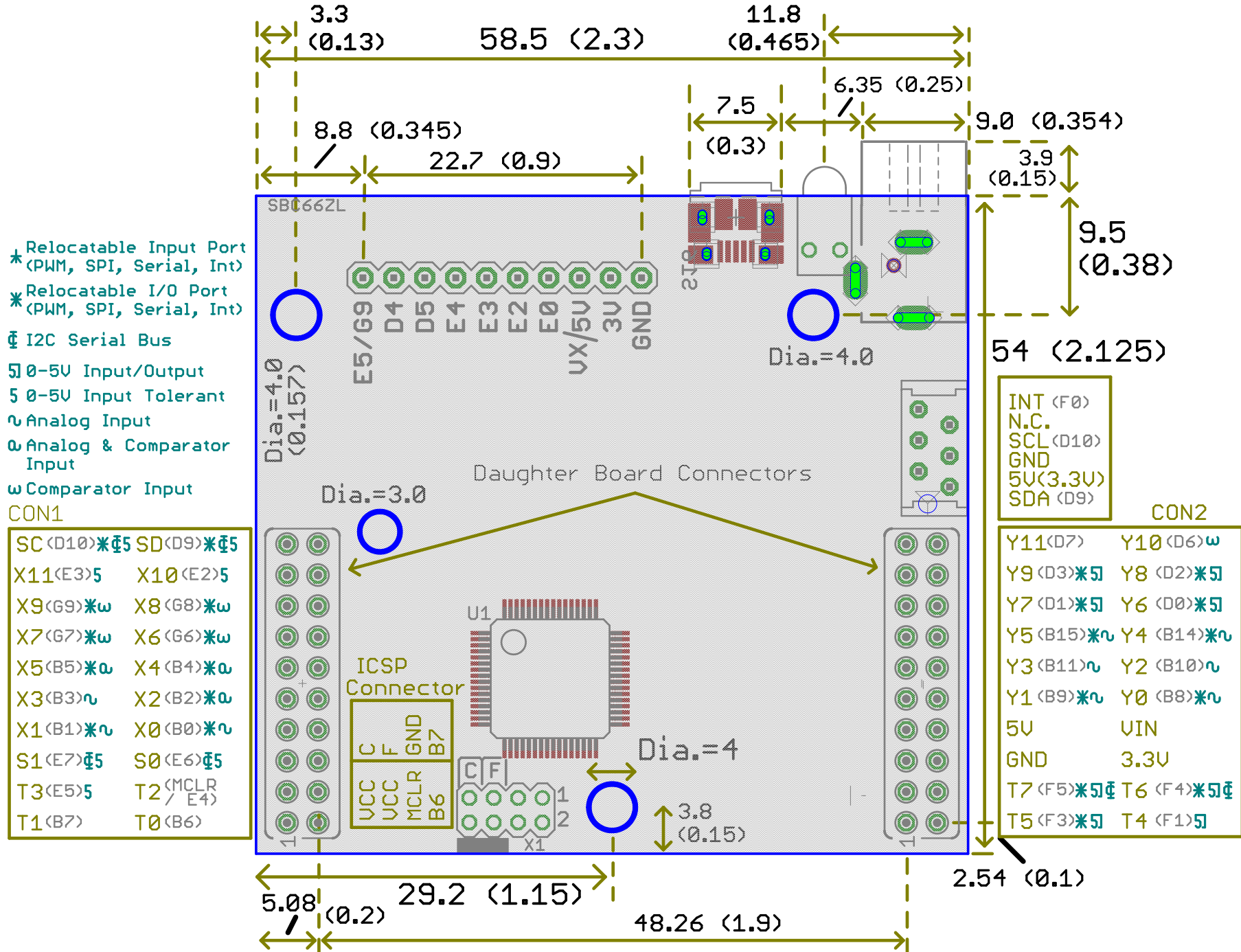
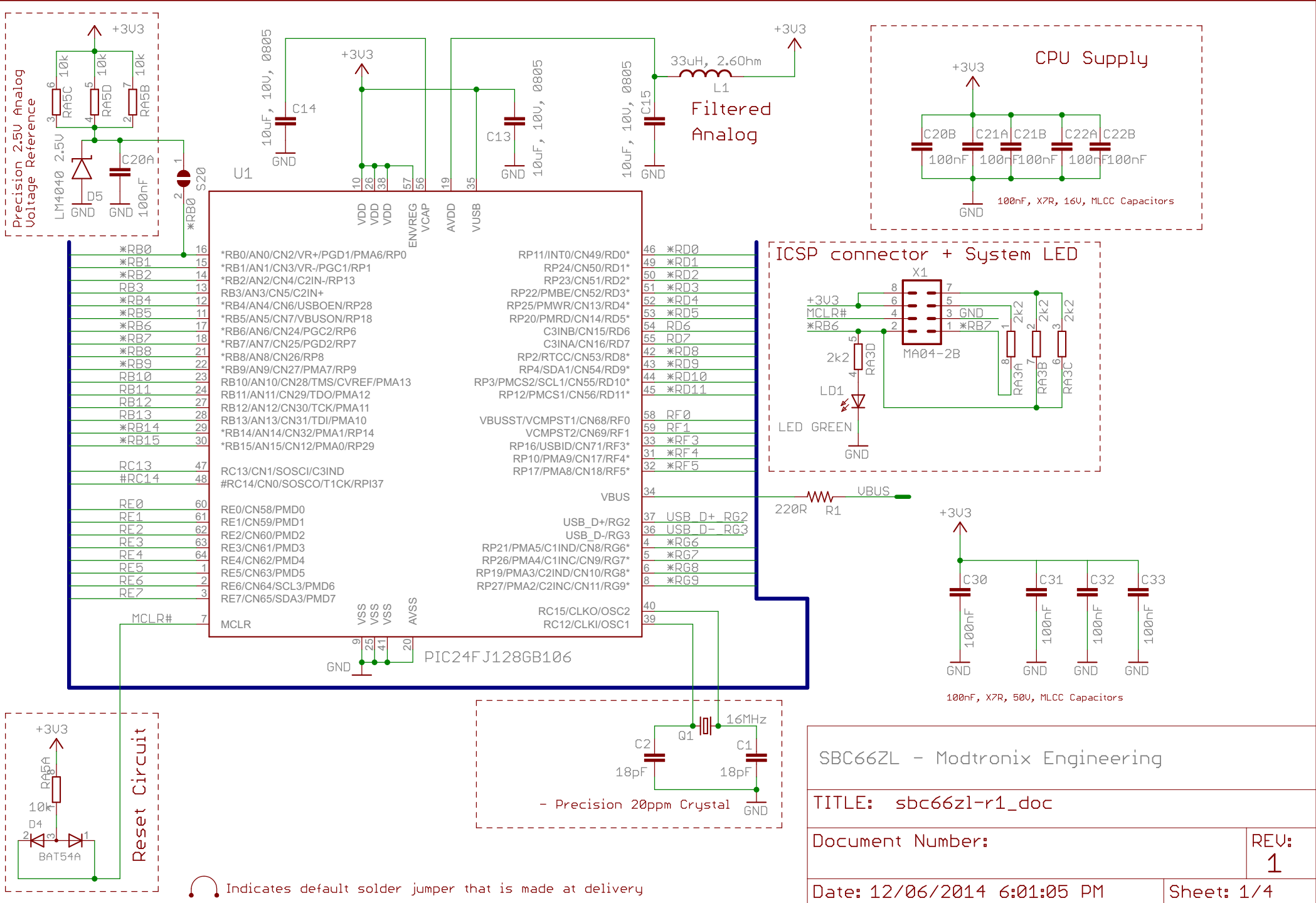


# Dimensions are in mm (inches)

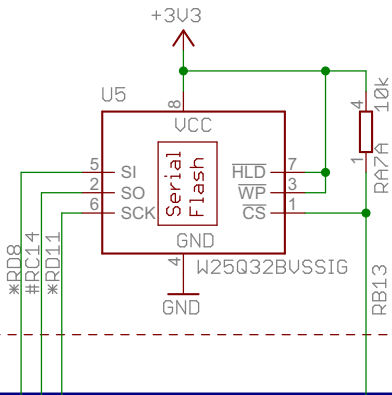




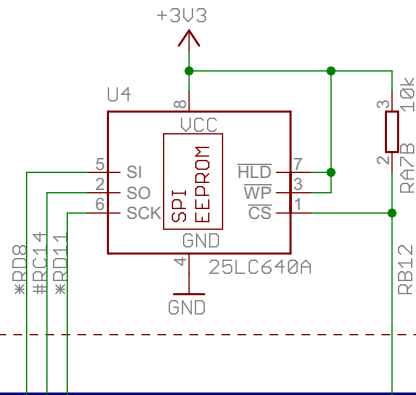
Indicates default solder jumper that is made at delivery

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TITLE: sbc66zl-r1_doc	
Document Number:	REV: 1
Date: 12/06/2014 6:01:05 PM	Sheet: 1/4

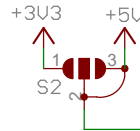
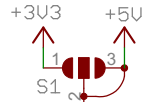
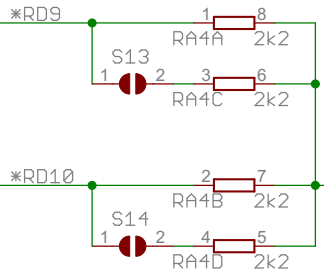
- 4MBytes Winbond Flash



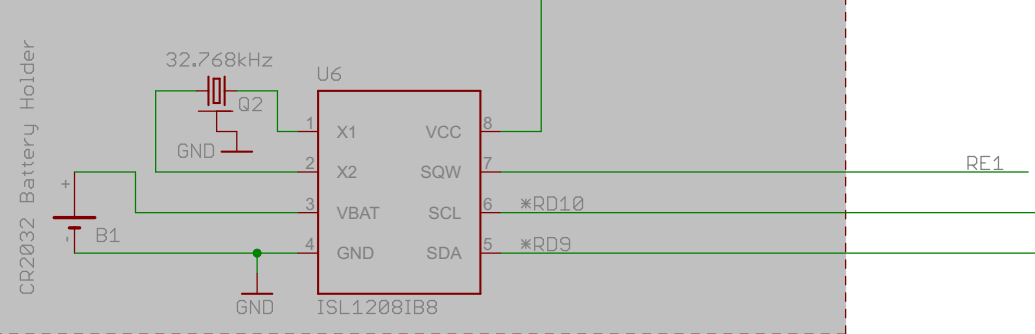
- 8KByte SPI EEPROM



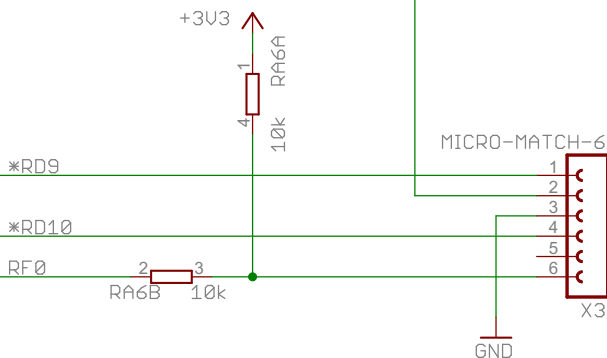
I2C pullup resistors



=== Not installed for base version ===  
 RTC with Battery Holder for  
 Lithium Battery (Over 20 Years Life)



Indicates default solder jumper that is made at delivery



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Document Number:

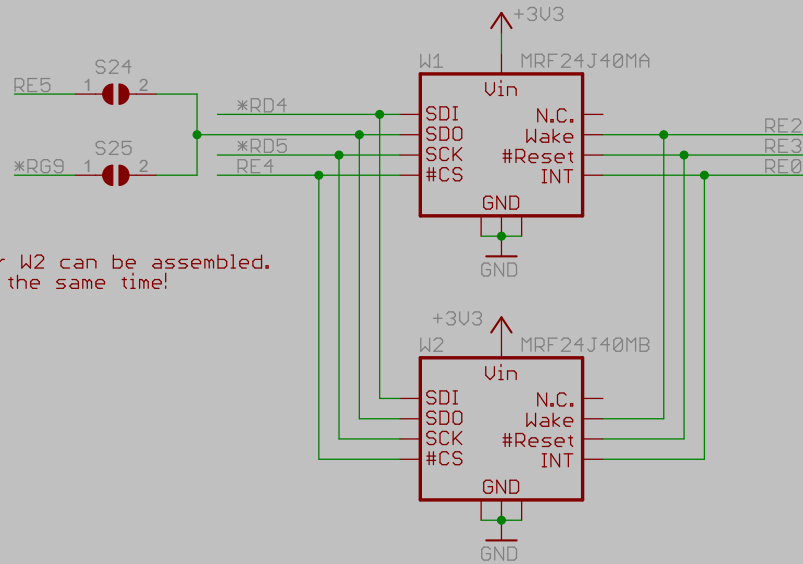
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Date: 12/06/2014 6:01:05 PM

Sheet: 2/4

=== Not assembled for base version ===

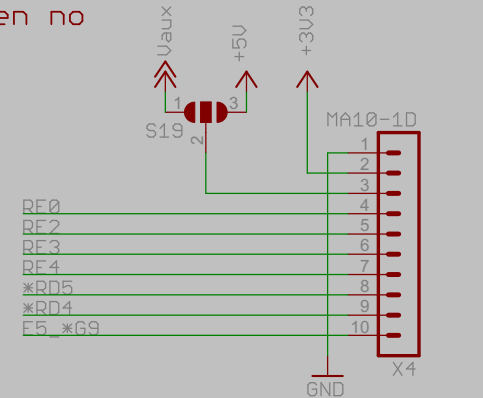
Wireless Module, can be ZigBee or MiWi module.



Either W1 or W2 can be assembled.  
Not both at the same time!

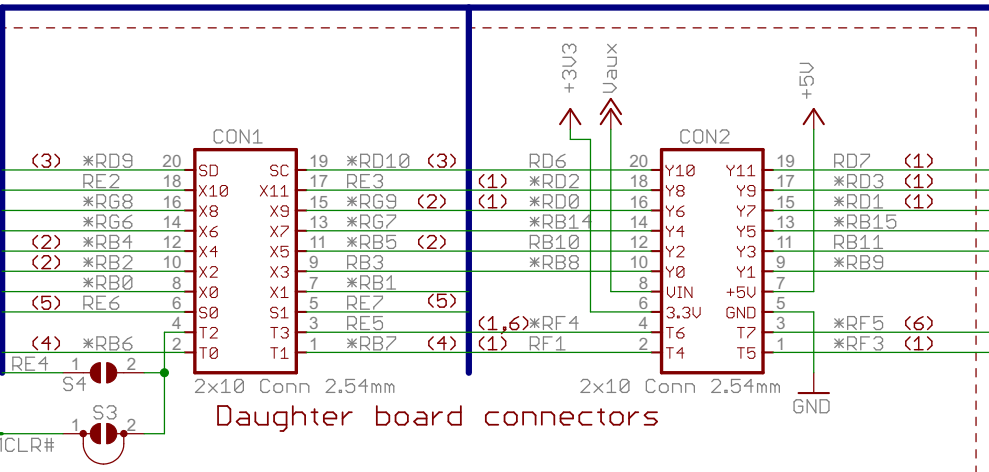
=== Not assembled for base version ===

Connector ONLY available when no wireless module assembled



=== Not assembled for base version ===

FFC Connector

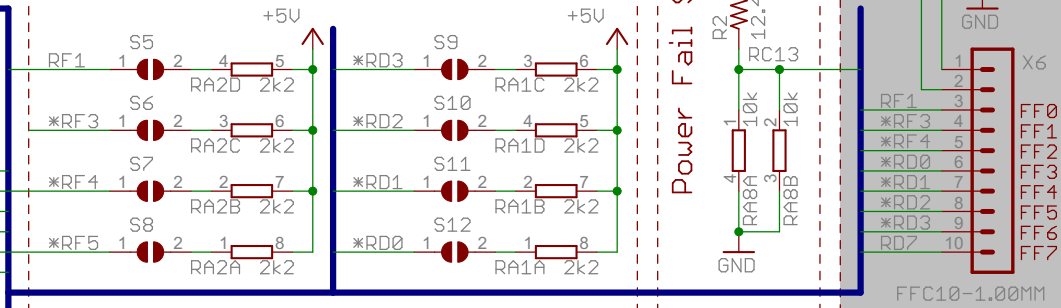


- (1) These pins are shared with the FFC Connector!
- (2) These pins are shared with iMod Connector!
- (3) RD9 and RD10 is shared (RTC, Micro Match) I2C bus
- (4) RB6 and RB7 are programming pins, do not use!
- (5) RE6 and RE7 is IO or a I2C bus on PIC24F
- (6) RF4 and RF5 is IO or I2C bus

- 5V compatible = F1, F3, F4, F5, D0-D3, D8

Enable 5V pull-up resistors

=== None made by default ===  
(no pull-up resistors enabled)



Indicates default solder jumper that is made at delivery

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TITLE: sbc66zl-r1\_doc

Document Number:

REV:  
1

Date: 12/06/2014 6:01:05 PM

Sheet: 3/4

=== Modes of operation for base version (no Power Connector assembled) ===

- Can be powered via Micro USB connector. Use standard Micro USB charger (like phone charger)
- Can get 5V via Daughter board connector (when used as daughter board on main board for example)

=== Adding 2.1mm Power Connector for 7.5 to 18V Supply ===

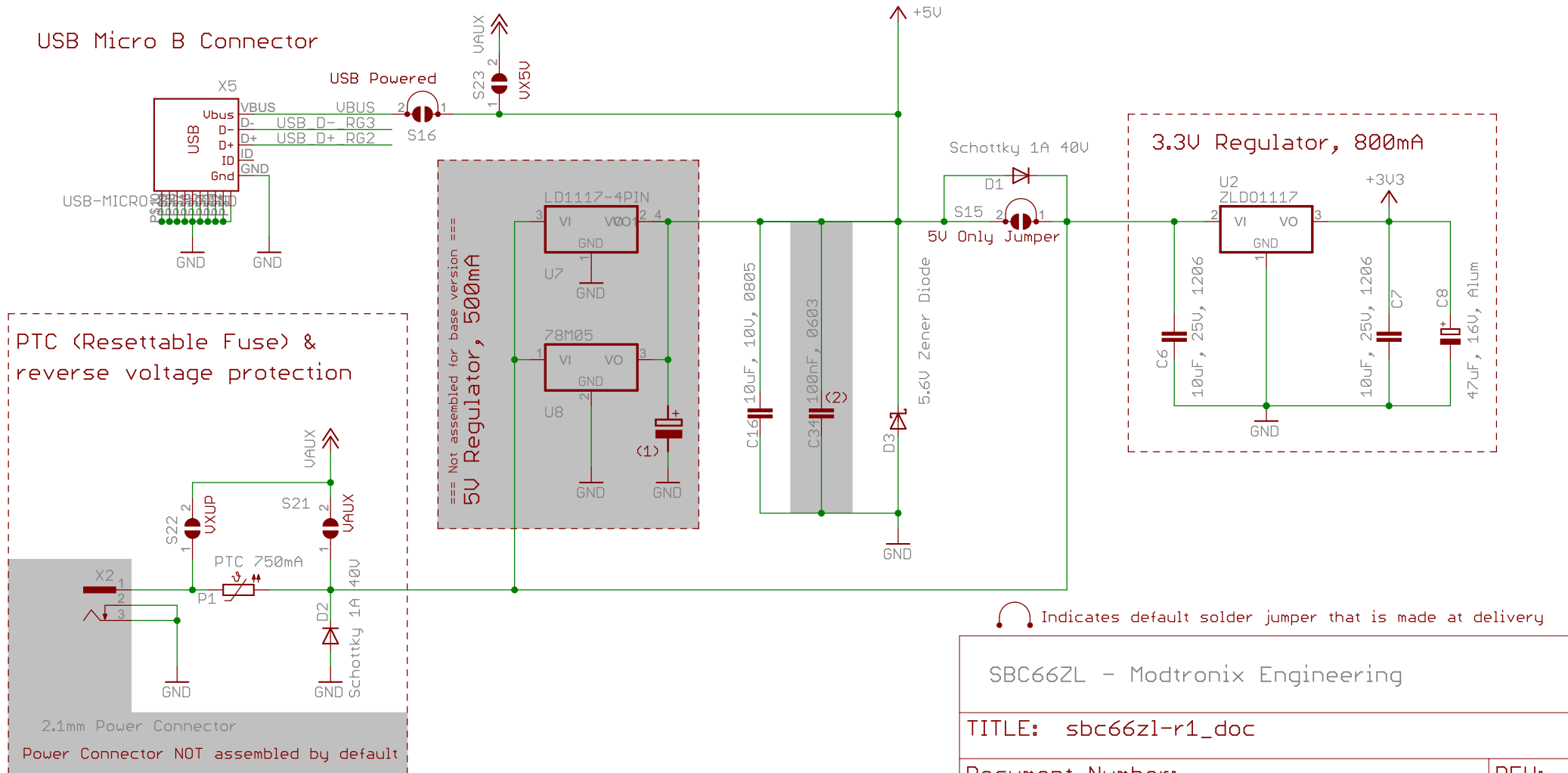
To power board with 7.5 to 18V via 2.1mm Power Connector, do following:

- Assemble 2.1mm Power connector X2
- Assemble either a 7805 or 1117 5V regulator in position U8 or U7
- Open solder jumper S15 and S16

=== Adding 2.1mm Power Connector for 5V supply ===

To power board with 5V via 2.1mm Power Connector, do following:

- Assemble 2.1mm Power connector X2
- Open solder jumper S16



(1) Capacitor can be mounted in pad 2 and 3 of U8 when U8 not assembled.  
 (2) Not assembled by default



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TITLE: sbc66zl-r1_doc	
Document Number:	REV: 1
Date: 12/06/2014 6:01:05 PM	Sheet: 4/4

