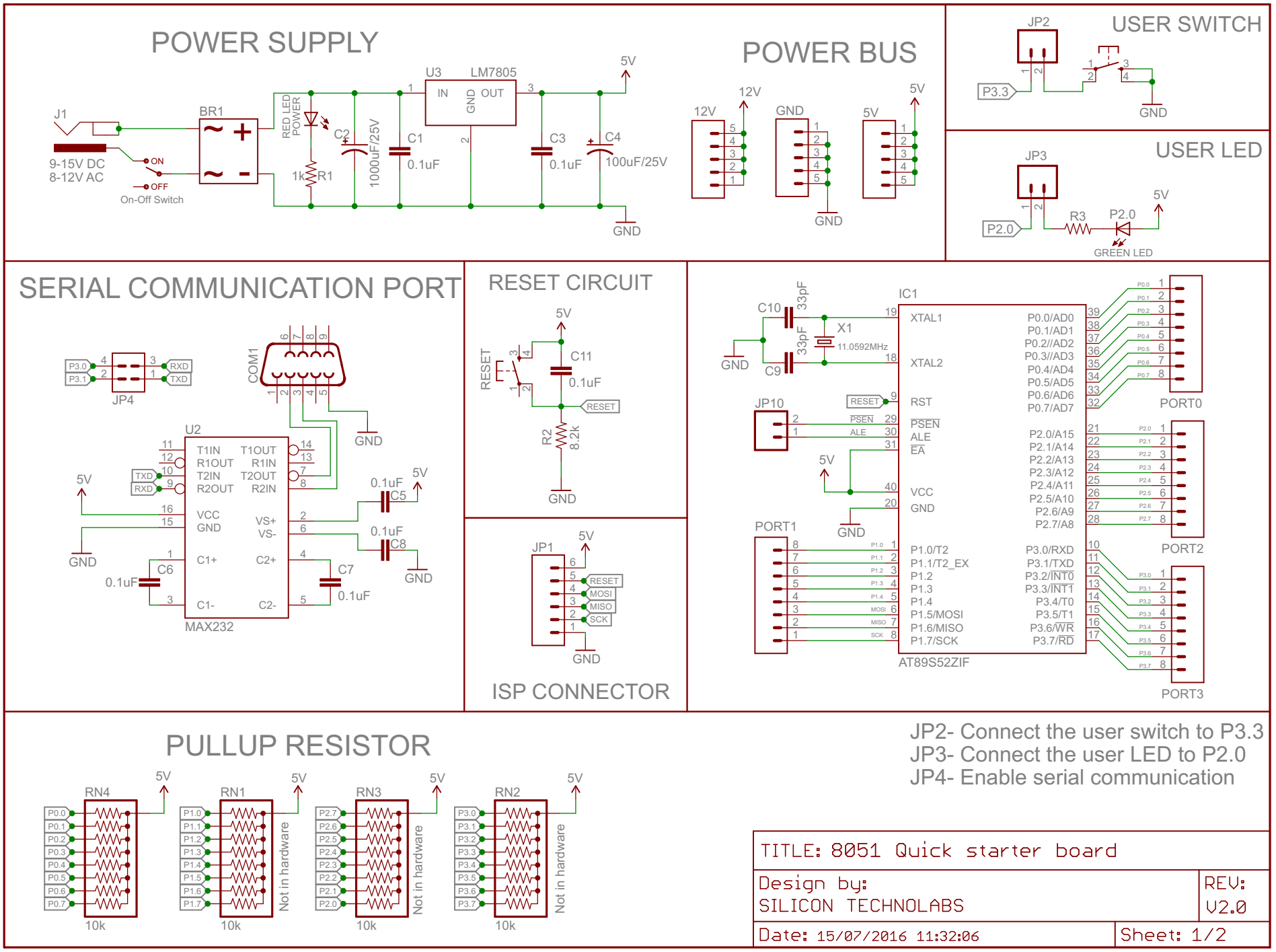
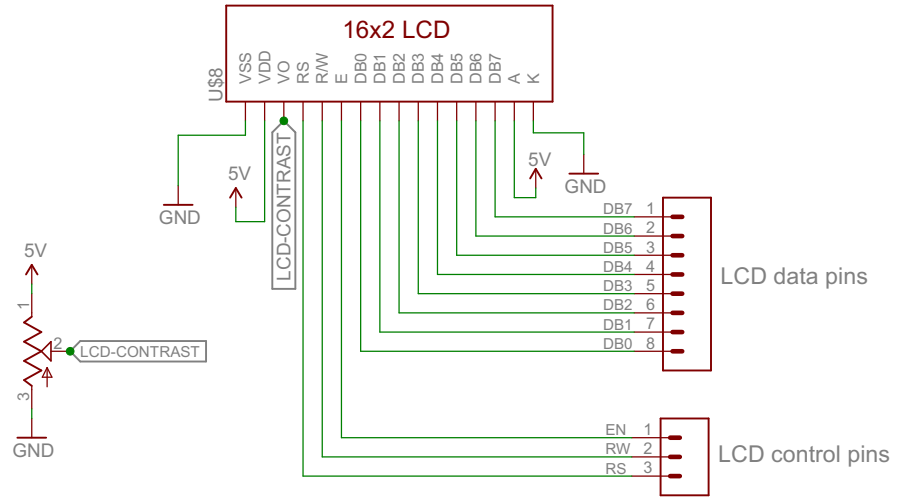
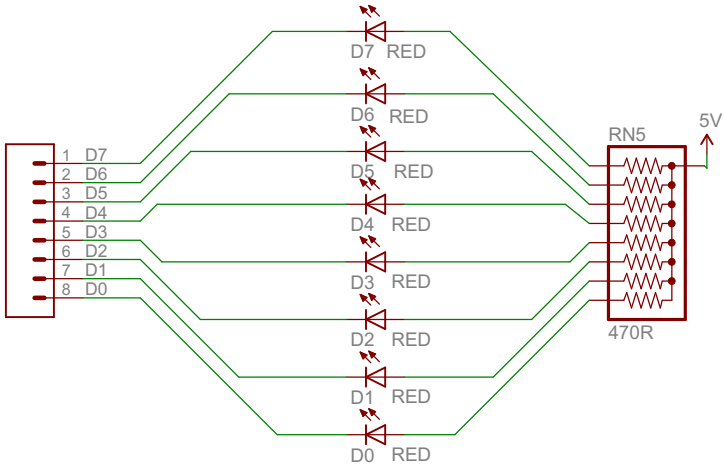

POWER SUPPLY
J1
9-15V DC
8-12V AC
ON
OFF
On-Off Switch
BR1
RED LED
POWER
1k
R1
C2
1000uF/25V
C1
0.1uF
U3
LM7805
IN
GND
OUT
C3
0.1uF
C4
100uF/25V
5V
GND
POWER BUS
12V
GND
5V
USER SWITCH
JP2
P3.3
GND
USER LED
JP3
P2.0
R3
GREEN LED
SERIAL COMMUNICATION PORT
JP4
P3.0
P3.1
RXD
TXD
COM1
U2
T1IN
R1OUT
T2IN
R2OUT
T1OUT
R1IN
T2OUT
R2IN
VCC
GND
VS+
VS-
C1+
C2+
C1-
C2-
C5
C6
C7
C8
0.1uF
MAX232
RESET CIRCUIT
RESET
C11
R2
8.2k
ISP CONNECTOR
JP1
MOSI
MISO
SCK
IC1
C10
C9
33pF
X1
11.0592MHz
XTAL1
XTAL2
RST
PSEN
ALE
EA
JP10
PORT0
PORT1
PORT2
PORT3
P0.0/AD0
P0.1/AD1
P0.2//AD2
P0.3//AD3
P0.4/AD4
P0.5/AD5
P0.6/AD6
P0.7/AD7
P2.0/A15
P2.1/A14
P2.2/A13
P2.3/A12
P2.4/A11
P2.5/A10
P2.6/A9
P2.7/A8
P1.0/T2
P1.1/T2_EX
P1.2
P1.3
P1.4
P1.5/MOSI
P1.6/MISO
P1.7/SCK
P3.0/RXD
P3.1/TXD
P3.2/INT0
P3.3/INT1
P3.4/T0
P3.5/T1
P3.6/WR
P3.7/RD
AT89S52ZIF
PULLUP RESISTOR
RN4
RN1
RN3
RN2
10k
Not in hardware
JP2- Connect the user switch to P3.3
JP3- Connect the user LED to P2.0
JP4- Enable serial communication
TITLE: 8051 Quick starter board
Design by:
SILICON TECHNOLABS
REV:
V2.0
Date: 15/07/2016 11:32:06
Sheet: 1/2

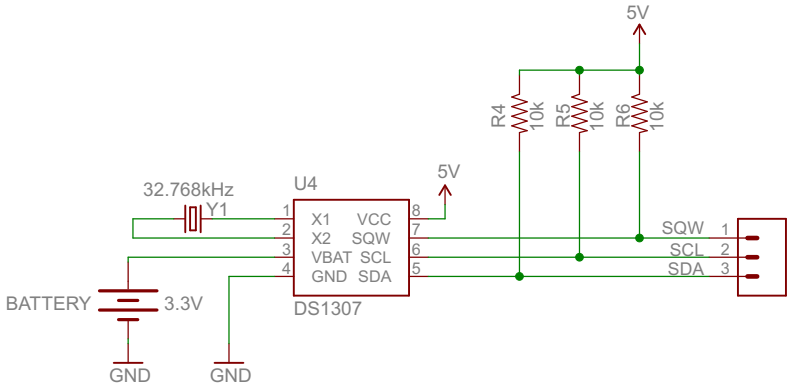
16x2 LCD



8 LED for checking port status



DS1307 RTC



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Design by: SILICON TECHNOLABS	REV: V2.0
Date: 15/07/2016 11:32:06	Sheet: 2/2