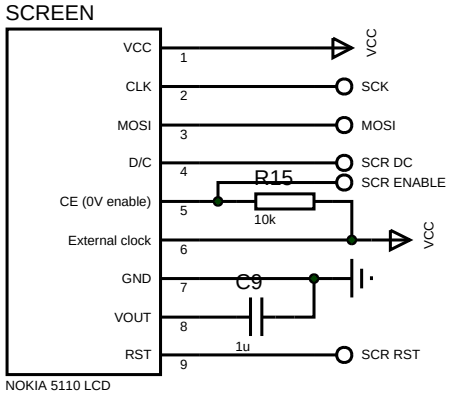
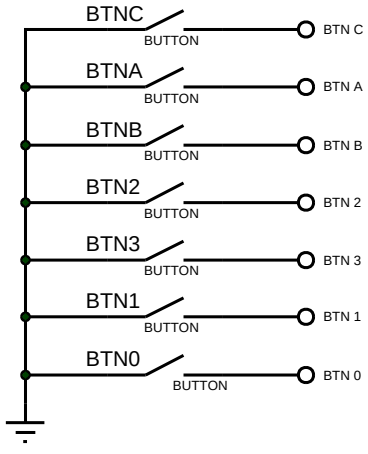
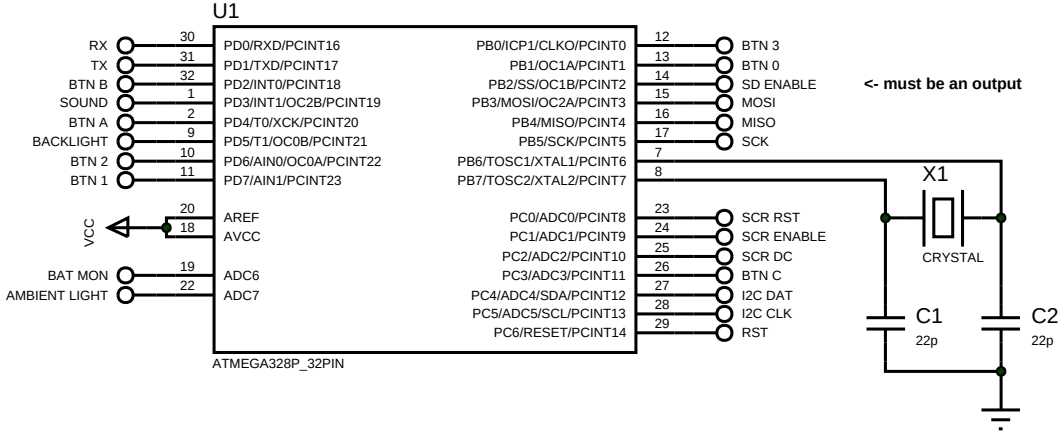
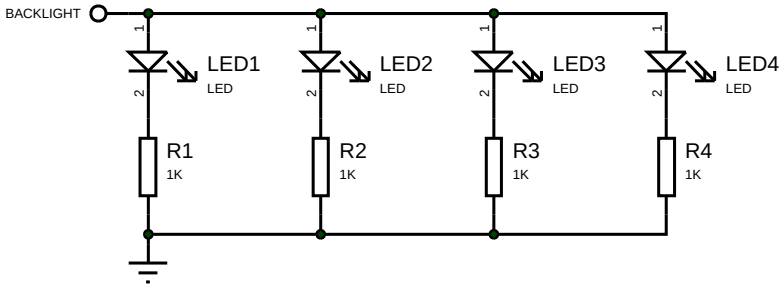
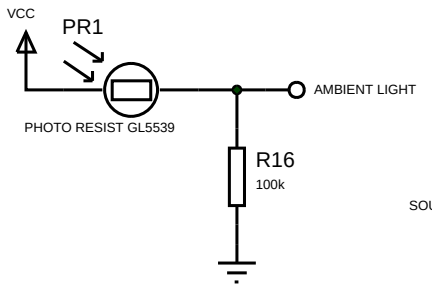
CORE & SCREEN

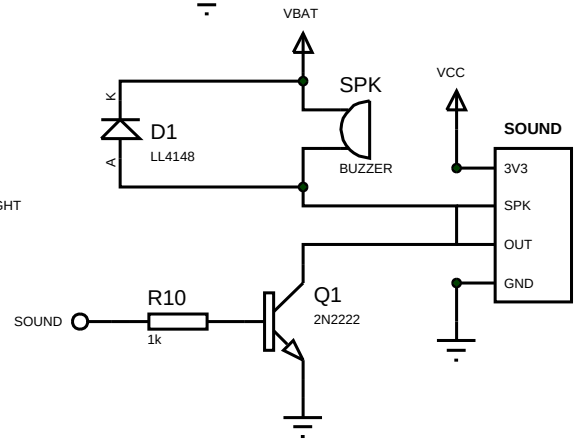

SCREEN
VCC
CLK
MOSI
D/C
CE (0V enable)
External clock
GND
VOUT
RST
1
2
3
4
5
6
7
8
9
SCK
MOSI
SCR DC
SCR ENABLE
SCR RST
R15
10k
C9
1u
VCC
NOKIA 5110 LCD


BTNC
BTN C
BTNA
BTN A
BTNB
BTN B
BTN2
BTN 2
BTN3
BTN 3
BTN1
BTN 1
BTN0
BTN 0
BUTTON

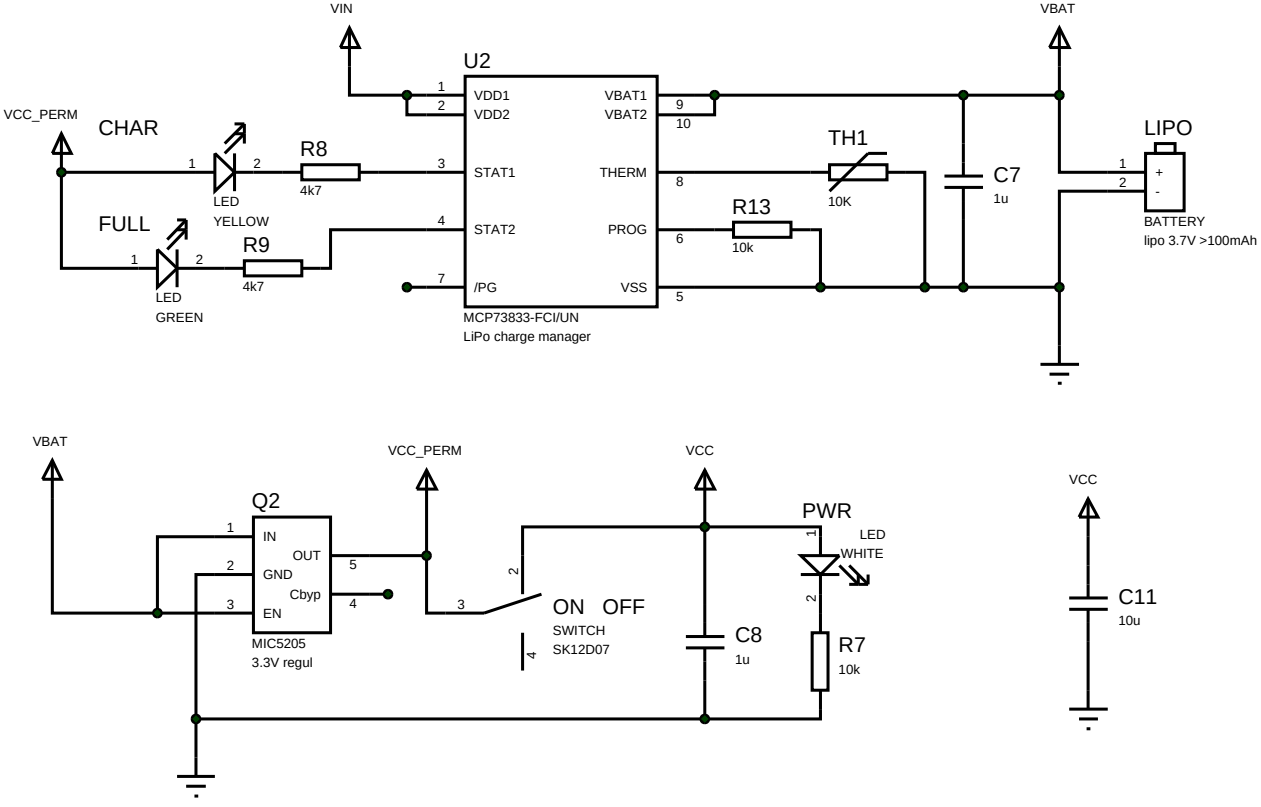

U1
RX
TX
BTN B
SOUND
BTN A
BACKLIGHT
BTN 2
BTN 1
VCC
BAT MON
AMBIENT LIGHT
PD0/RXD/PCINT16
PD1/TXD/PCINT17
PD2/INT0/PCINT18
PD3/INT1/OC2B/PCINT19
PD4/T0/XCK/PCINT20
PD5/T1/OC0B/PCINT21
PD6/AIN0/OC0A/PCINT22
PD7/AIN1/PCINT23
AREF
AVCC
ADC6
ADC7
PB0/ICP1/CLKO/PCINT0
PB1/OC1A/PCINT1
PB2/SS/OC1B/PCINT2
PB3/MOSI/OC2A/PCINT3
PB4/MISO/PCINT4
PB5/SCK/PCINT5
PB6/TOSC1/XTAL1/PCINT6
PB7/TOSC2/XTAL2/PCINT7
PC0/ADC0/PCINT8
PC1/ADC1/PCINT9
PC2/ADC2/PCINT10
PC3/ADC3/PCINT11
PC4/ADC4/SDA/PCINT12
PC5/ADC5/SCL/PCINT13
PC6/RESET/PCINT14
BTN 3
BTN 0
SD ENABLE
MOSI
MISO
SCK
SCR RST
SCR ENABLE
SCR DC
BTN C
I2C DAT
I2C CLK
RST
<- must be an output
X1
CRYSTAL
C1
22p
C2
22p
ATMEGA328P_32PIN

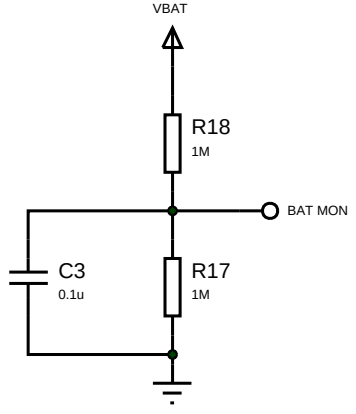

BACKLIGHT
LED1
LED2
LED3
LED4
LED
R1
1K
R2
1K
R3
1K
R4
1K


VCC
PR1
PHOTO RESIST GL5539
AMBIENT LIGHT
R16
100k

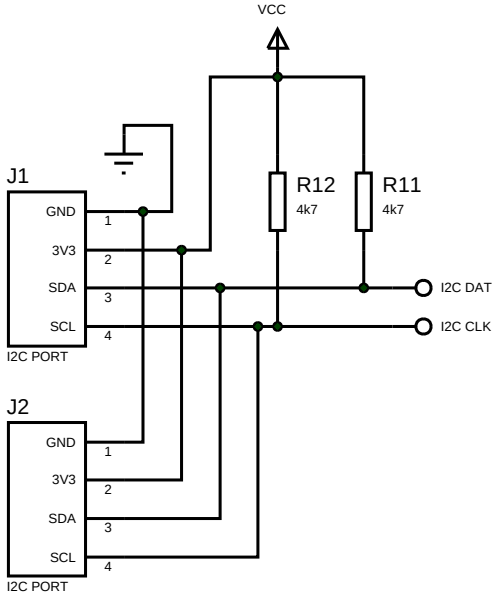
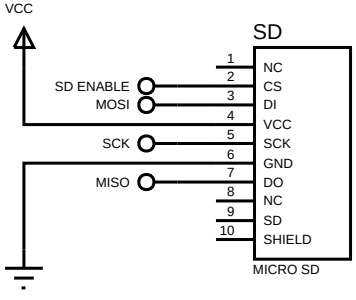
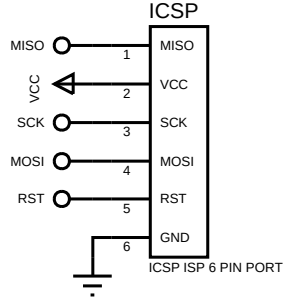
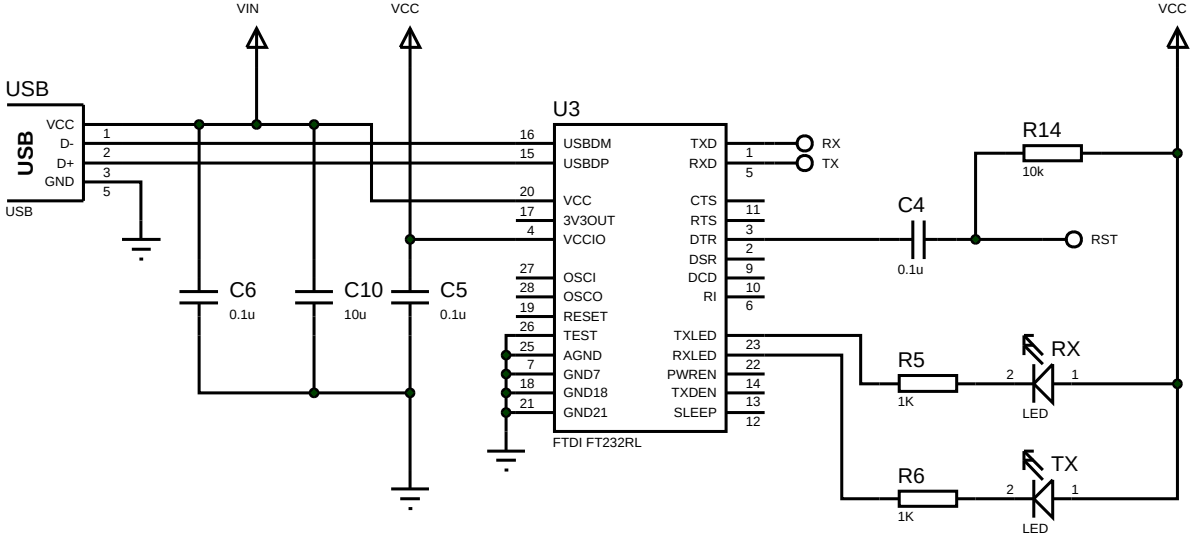

VBAT
SPK
BUZZER
D1
LL4148
K
A
VCC
SOUND
3V3
SPK
OUT
GND
R10
1k
SOUND
Q1
2N2222

POWER


VIN
VBAT
U2
VDD1
VDD2
VBAT1
VBAT2
STAT1
STAT2
THERM
PROG
/PG
VSS
MCP73833-FCI/UN
LiPo charge manager
VCC_PERM
CHAR
LED
YELLOW
R8
4k7
FULL
LED
GREEN
R9
4k7
TH1
10K
R13
10k
C7
1u
LIPO
BATTERY
lipo 3.7V >100mAh


VBAT
R18
1M
BAT MON
C3
0.1u
R17
1M

VBAT
VCC_PERM
VCC
Q2
IN
OUT
GND
Cbyp
EN
MIC5205
3.3V regul
ON OFF
SWITCH
SK12D07
PWR
LED
WHITE
C8
1u
R7
10k

VCC
C11
10u

COMMUNICATION