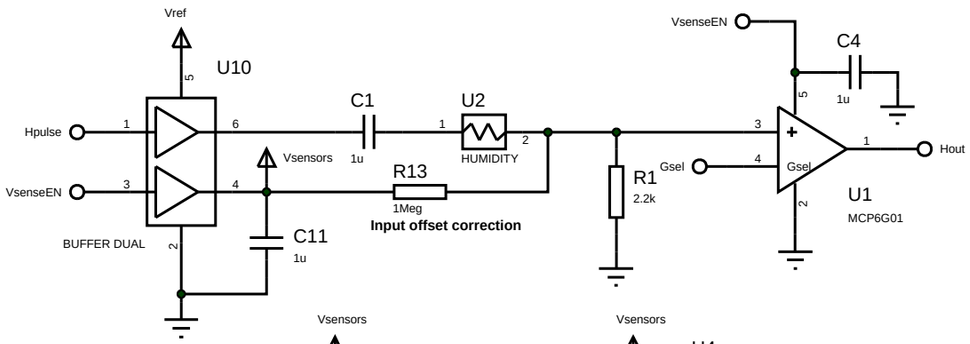
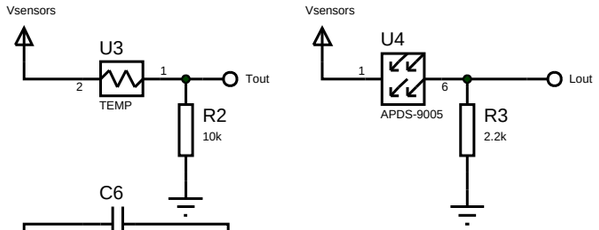
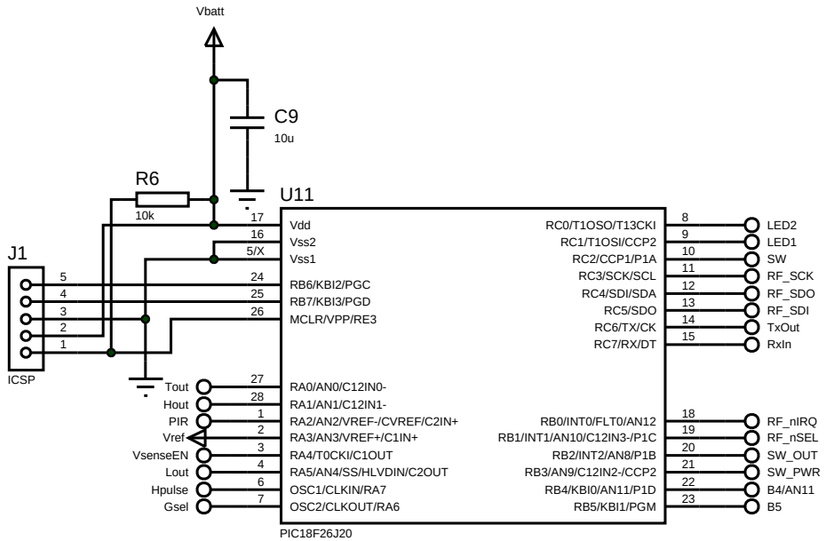
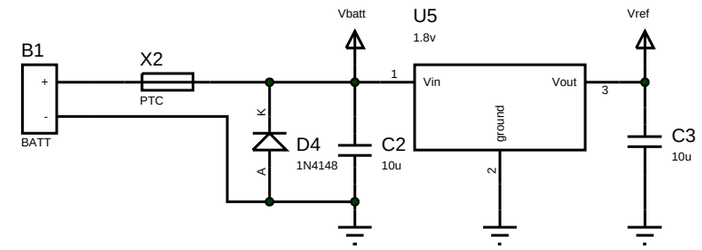
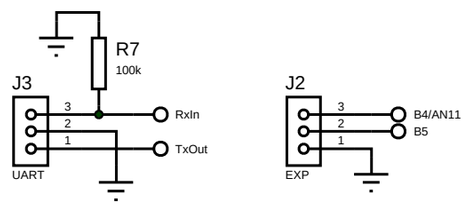

Vref
U10
Hpulse
VsenseEN
BUFFER DUAL
C1
1u
U2
HUMIDITY
Vsensors
R13
1Meg
Input offset correction
C11
1u
VsenseEN
C4
1u
R1
2.2k
Gsel
U1
MCP6G01
Hout

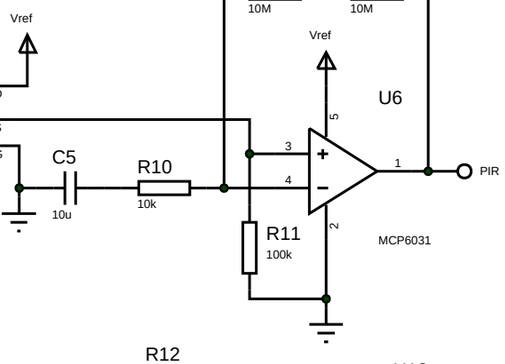

Vsensors
U3
TEMP
Tout
R2
10k
C6
dnp
D3
1N4148
D2
1N4148
R8
10M
R9
10M

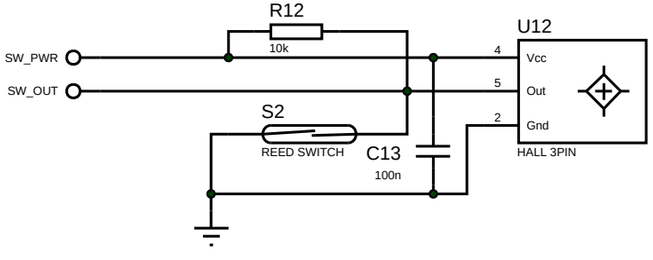
Vsensors
U4
APDS-9005
Lout
R3
2.2k

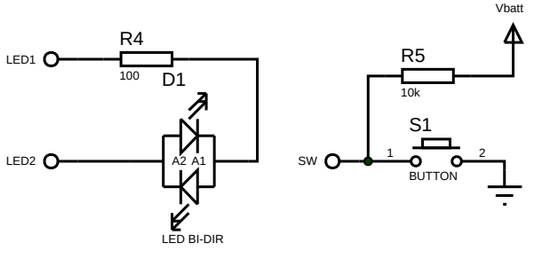

Vbatt
C9
10u
R6
10k
U11
J1
ICSP
Vdd
Vss2
Vss1
RB6/KBI2/PGC
RB7/KBI3/PGD
MCLR/VPP/RE3
RA0/AN0/C12IN0-
RA1/AN1/C12IN1-
RA2/AN2/VREF-/CVREF/C2IN+
RA3/AN3/VREF+/C1IN+
RA4/T0CKI/C1OUT
RA5/AN4/SS/HLVDIN/C2OUT
OSC1/CLKIN/RA7
OSC2/CLKOUT/RA6
RC0/T1OSO/T13CKI
RC1/T1OSI/CCP2
RC2/CCP1/P1A
RC3/SCK/SCL
RC4/SDI/SDA
RC5/SDO
RC6/TX/CK
RC7/RX/DT
RB0/INT0/FLT0/AN12
RB1/INT1/AN10/C12IN3-/P1C
RB2/INT2/AN8/P1B
RB3/AN9/C12IN2-/CCP2
RB4/KBI0/AN11/P1D
RB5/KBI1/PGM
LED2
LED1
SW
RF_SCK
RF_SDO
RF_SDI
RF_nSEL
TxOut
RxIn
Tout
Hout
PIR
Vref
VsenseEN
Lout
Hpulse
Gsel
RF_nIRQ
RF_nSEL
SW_OUT
SW_PWR
B4/AN11
B5
PIC18F26J20

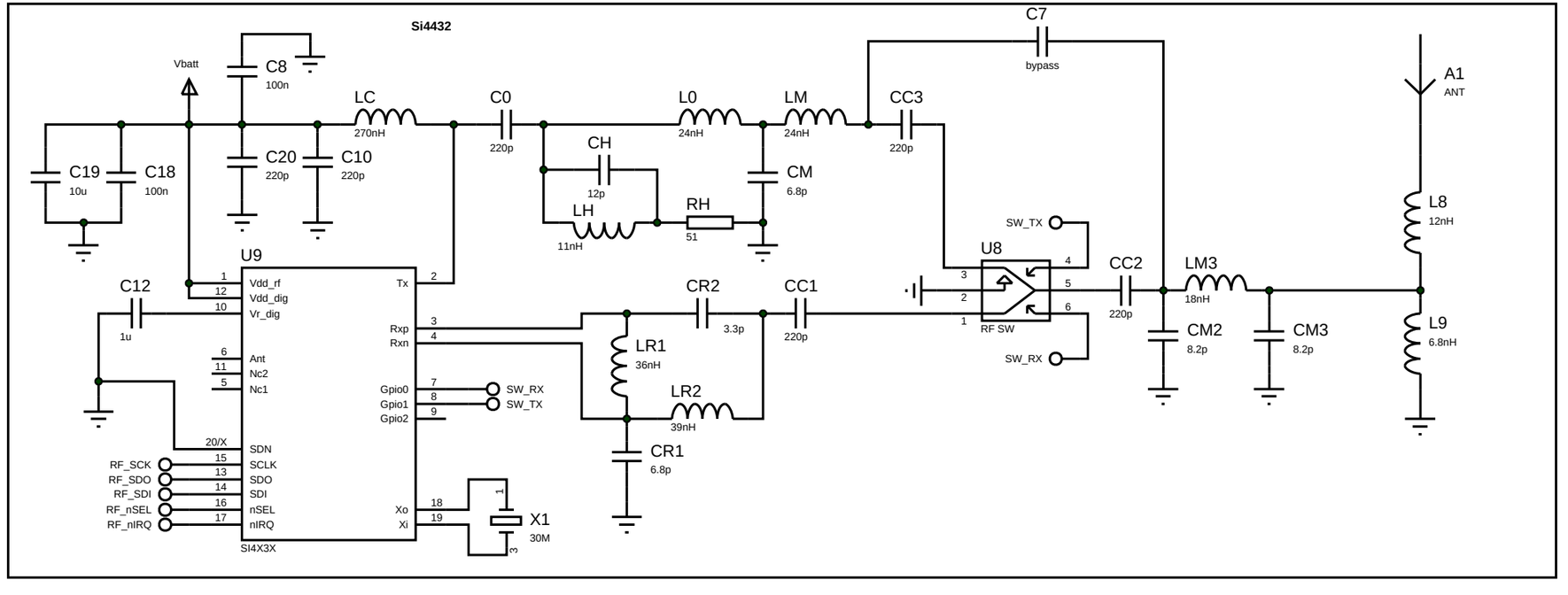

Vbatt
U5
1.8v
Vref
B1
BATT
X2
PTC
D4
1N4148
C2
10u
Vin
Vout
ground
C3
10u


R7
100k
J3
UART
RxIn
TxOut
J2
EXP
B4/AN11
B5


Vref
U7
PIR MURATA
D
S
G
C5
10u
R10
10k
U6
R11
100k
MCP6031
PIR


R12
10k
U12
SW_PWR
SW_OUT
S2
REED SWITCH
C13
100n
Vcc
Out
Gnd
HALL 3PIN


Vbatt
R4
100
LED1
D1
LED2
A2 A1
LED BI-DIR
R5
10k
S1
SW
BUTTON


Si4432
Vbatt
C8
100n
LC
270nH
C0
220p
L0
24nH
LM
24nH
CC3
220p
C7
bypass
A1
ANT
C19
10u
C18
100n
C20
220p
C10
220p
CH
12p
LH
11nH
RH
51
CM
6.8p
L8
12nH
U9
C12
1u
Vdd_rf
Vdd_dig
Vr_dig
Ant
Nc2
Nc1
SDN
SCLK
SDO
SDI
nSEL
nIRQ
Tx
Rxp
Rxn
Gpio0
Gpio1
Gpio2
Xo
Xi
SI4X3X
CR2
3.3p
CC1
220p
LR1
36nH
LR2
39nH
CR1
6.8p
X1
30M
U8
RF SW
SW_TX
SW_RX
CC2
220p
LM3
18nH
CM2
8.2p
CM3
8.2p
L9
6.8nH