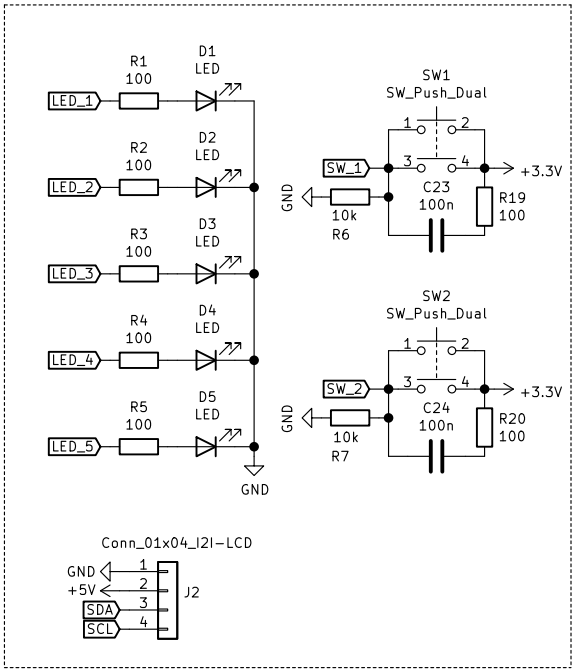
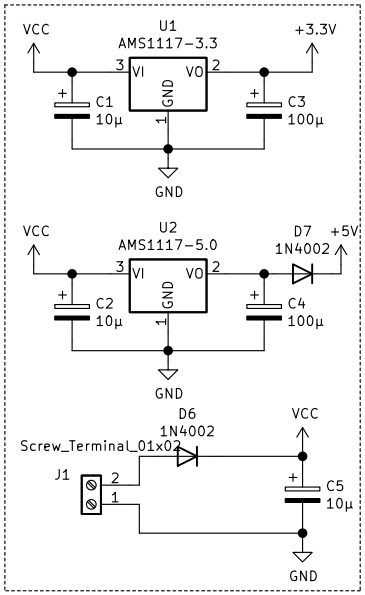
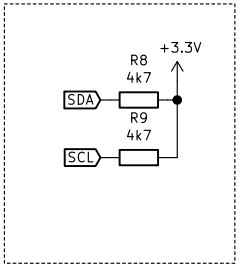
peripherals



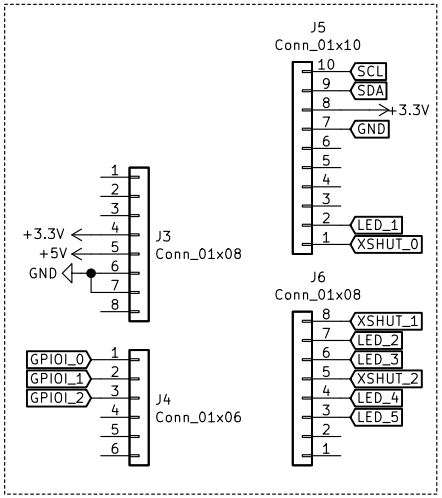
power



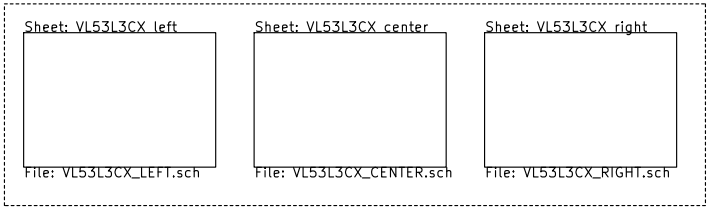
data



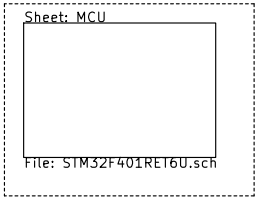
connectors

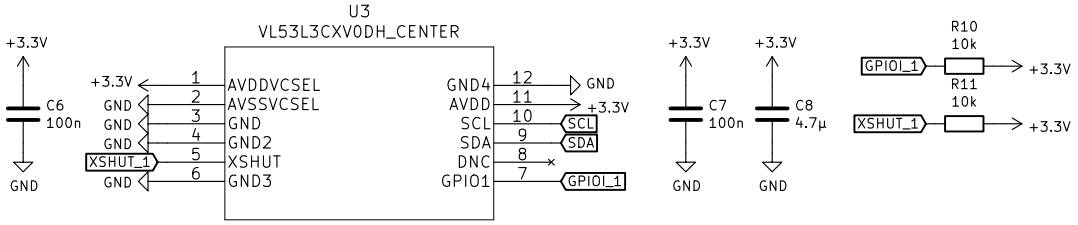


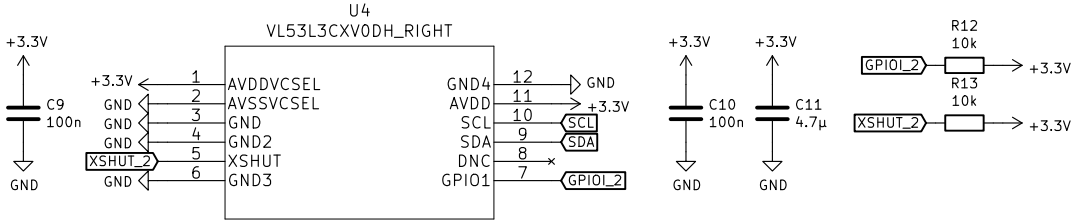
sensors

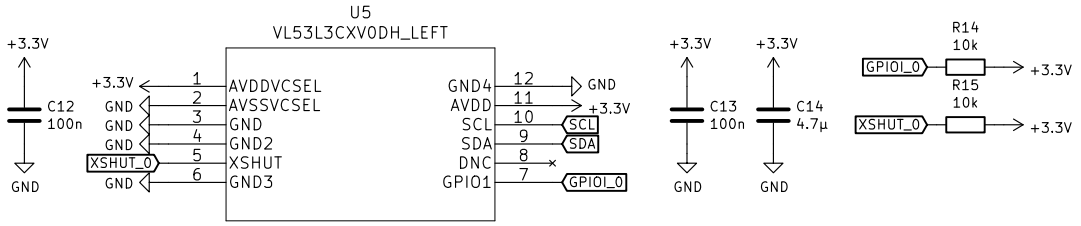


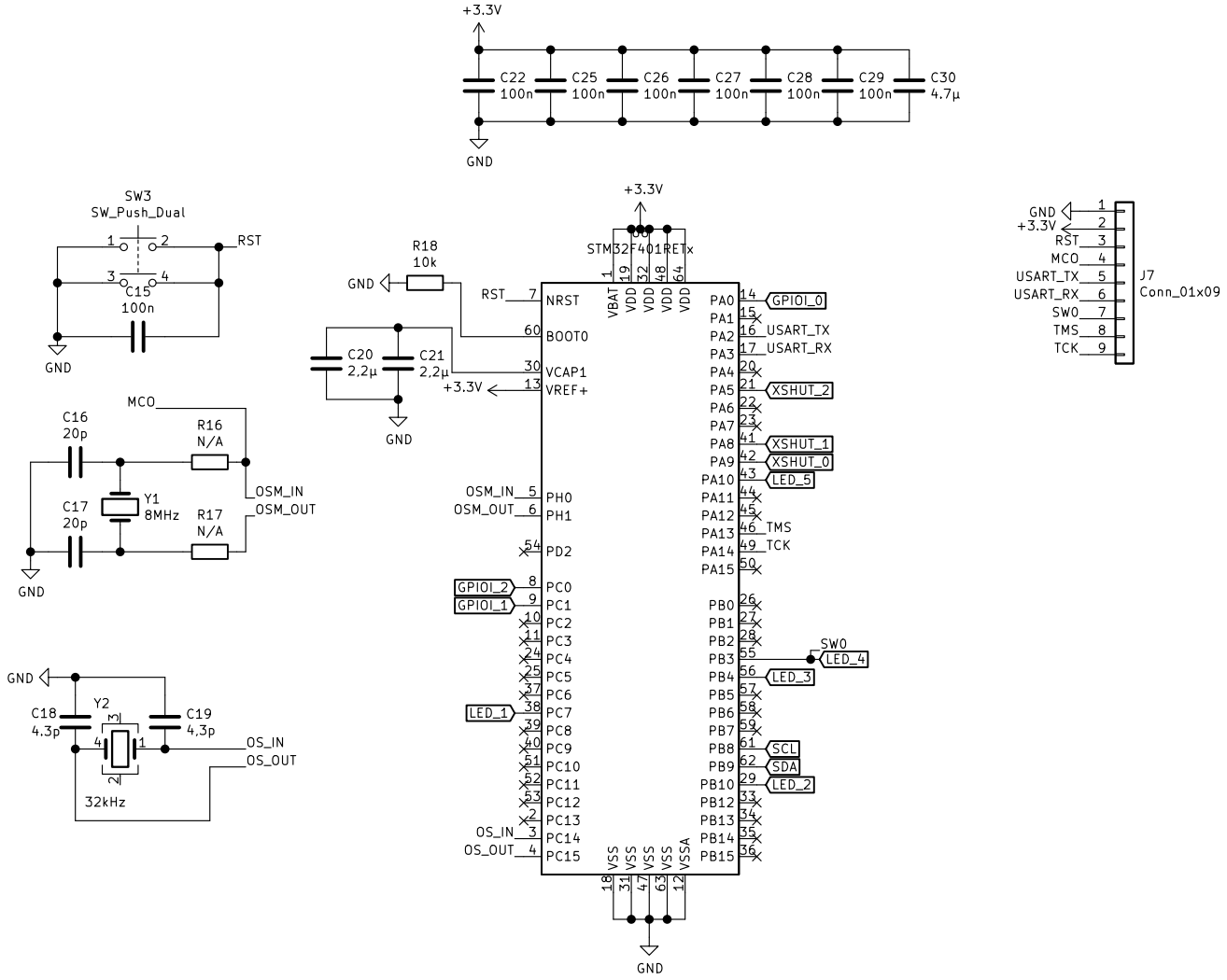
mcu




U3
VL53L3CXV0DH_CENTER
+3.3V
C6
100n
GND
+3.3V
GND
GND
GND
XSHUT_1
GND
1
2
3
4
5
6
AVDDVCSEL
AVSSVCSEL
GND
GND2
XSHUT
GND3
GND4
AVDD
SCL
SDA
DNC
GPIO1
12
11
10
9
8
7
GND
+3.3V
SCL
SDA
GPIO1_1
+3.3V
C7
100n
GND
+3.3V
C8
4.7µ
GND
R10
10k
GPIO1_1
+3.3V
R11
10k
XSHUT_1
+3.3V


U4
VL53L3CXV0DH_RIGHT
+3.3V
C9
100n
GND
+3.3V
GND
GND
GND
XSHUT_2
GND
1
2
3
4
5
6
AVDDVCSEL
AVSSVCSEL
GND
GND2
XSHUT
GND3
GND4
AVDD
SCL
SDA
DNC
GPIO1
12
11
10
9
8
7
GND
+3.3V
SCL
SDA
GPIO1_2
+3.3V
C10
100n
GND
+3.3V
C11
4.7µ
GND
R12
10k
GPIO1_2
+3.3V
R13
10k
XSHUT_2
+3.3V


U5
VL53L3CXV0DH_LEFT
+3.3V
C12
100n
GND
+3.3V
GND
GND
GND
XSHUT_0
GND
1
2
3
4
5
6
AVDDVCSEL
AVSSVCSEL
GND
GND2
XSHUT
GND3
GND4
AVDD
SCL
SDA
DNC
GPIO1
12
11
10
9
8
7
GND
+3.3V
SCL
SDA
GPIOI_0
+3.3V
C13
100n
GND
+3.3V
C14
4.7µ
GND
R14
10k
GPIOI_0
+3.3V
R15
10k
XSHUT_0
+3.3V


+3.3V
C22 100n
C25 100n
C26 100n
C27 100n
C28 100n
C29 100n
C30 4.7µ
GND
SW3
SW_Push_Dual
RST
C15 100n
GND
MCO
C16 20p
R16 N/A
OSM_IN
OSM_OUT
Y1 8MHz
C17 20p
R17 N/A
GND
GND
C18 4.3p
Y2
C19 4.3p
OS_IN
OS_OUT
32kHz
R18 10k
GND
C20 2,2µ
C21 2,2µ
+3.3V
GND
+3.3V
U0
STM32F401RETx
VBAT
VDD
VDD
VDD
VDD
VSS
VSS
VSS
VSS
VSSA
NRST
BOOT0
VCAP1
VREF+
PH0
PH1
PD2
PC0
PC1
PC2
PC3
PC4
PC5
PC6
PC7
PC8
PC9
PC10
PC11
PC12
PC13
PC14
PC15
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9
PA10
PA11
PA12
PA13
PA14
PA15
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PB8
PB9
PB10
PB12
PB13
PB14
PB15
RST
OSM_IN
OSM_OUT
GPIOI_2
GPIOI_1
LED_1
OS_IN
OS_OUT
GPIOI_0
USART_TX
USART_RX
XSHUT_2
XSHUT_1
XSHUT_0
LED_5
TMS
TCK
SW0
LED_4
LED_3
SCL
SDA
LED_2
GND
GND
+3.3V
RST
MCO
USART_TX
USART_RX
SW0
TMS
TCK
J7
Conn_01x09