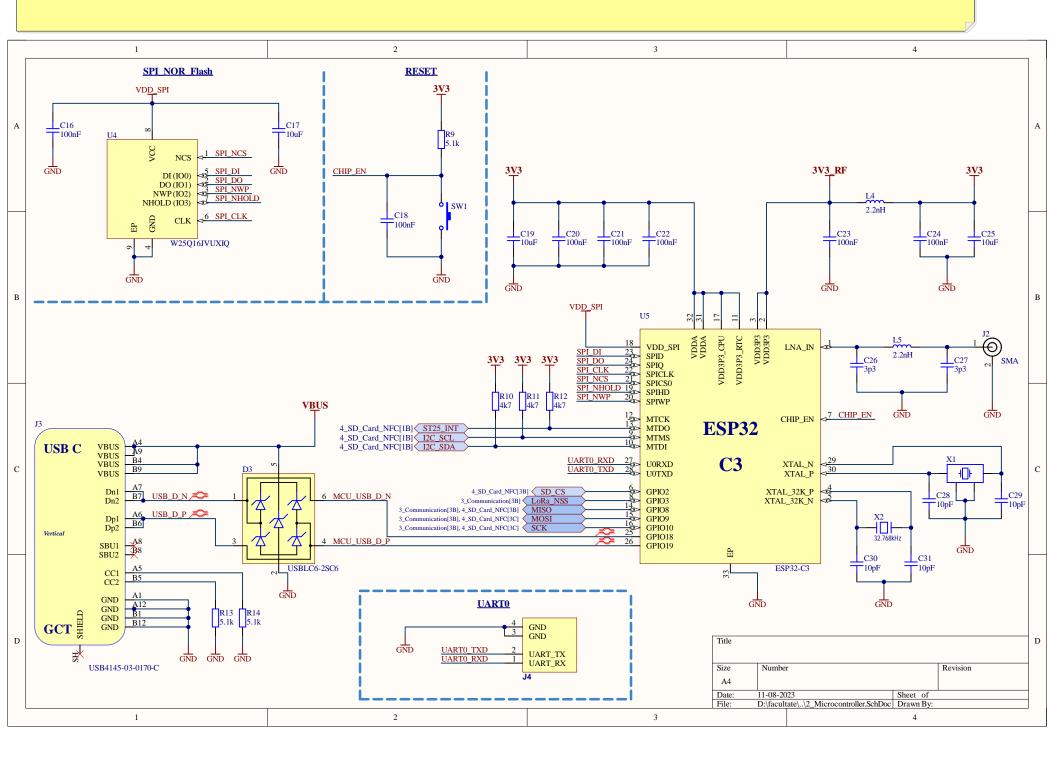
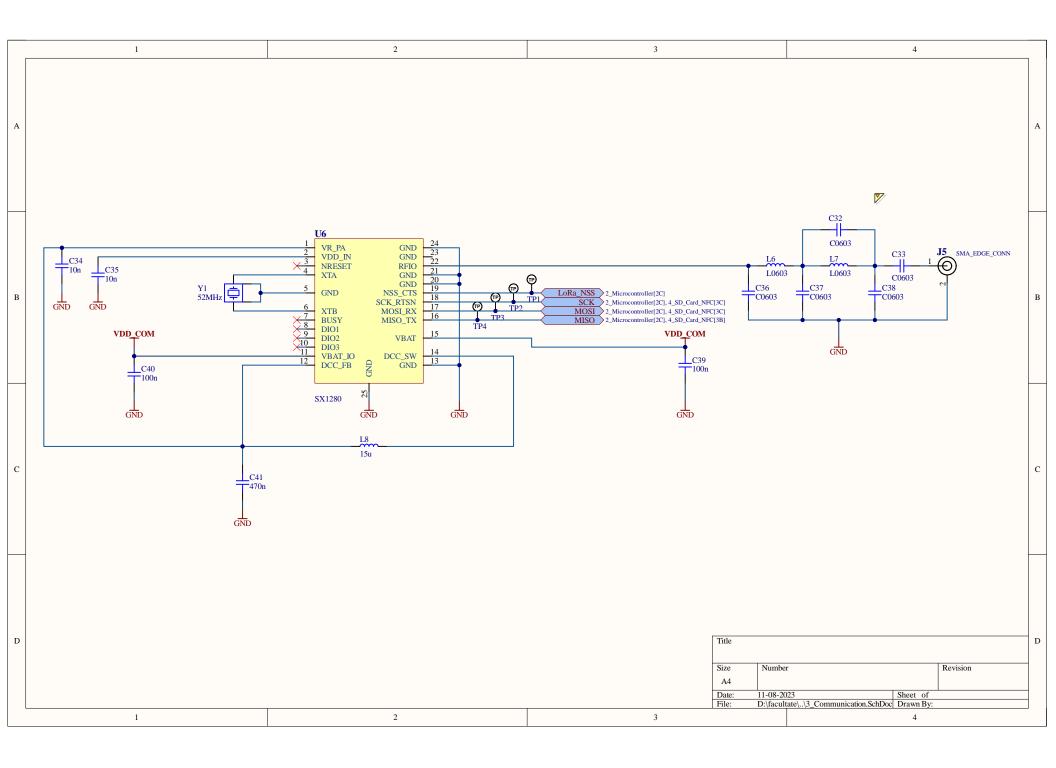
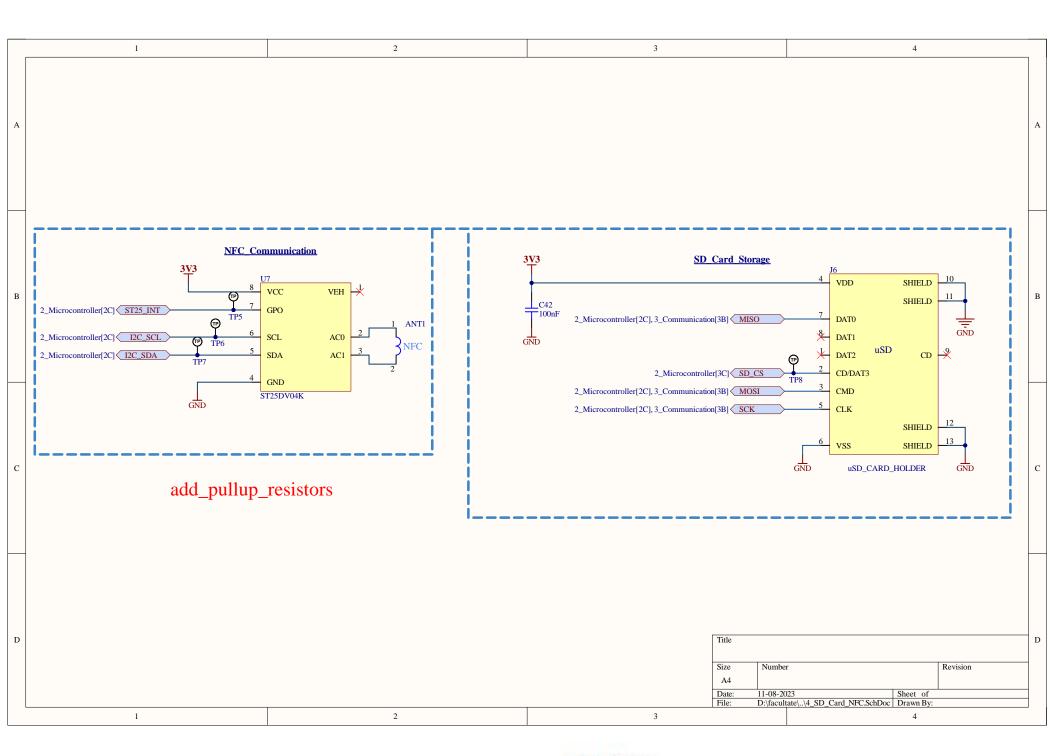


## Antenna connected on SMA connector







Comment	Description	Designator	Footprint	LibRef	Quantity
NFC_ANTENNA		ANT1		NFC_ANTENNA	1
100nF	Capacitor SMD 0603	C1, C2, C5, C9, C10, C11, C16, C18, C20, C21, C22, C23, C24, C42	CAP_0603	CAP_0603	14
4.7uF	Capacitor SMD 0603	C3, C6	CAP_0603	CAP_0603	2
10uF	Capacitor SMD 0805	C4, C7, C12, C13, C14, C17, C19, C25	CAP_0805	CAP_0805	8
220nF	Capacitor SMD 0603	C8	CAP_0603	CAP_0603	1
0.1uF	Capacitor SMD 0603	C15	CAP_0603	CAP_0603	1
3p3	Capacitor SMD 0603	C26, C27 C28, C29, C30, C31	CAP_0603	CAP_0603	2
10pF	Capacitor SMD 0603	C32, C33, C36, C37,	CAP_0603	CAP_0603	
C0603	Capacitor SMD 0603	C38	CAP_0603	CAP_0603	5
10n	Capacitor SMD 0603	C34, C35	CAP_0603	CAP_0603	2
100n	Capacitor SMD 0603	C39, C40	CAP_0603	CAP_0603	2
470n	Capacitor SMD 0603 Diode	C41	CAP_0603	CAP_0603	1 2
USBLC6-2SC6	Low-Capacitance ESD	D1, D2 D3	DO-213AA SOT-23-6	DIODE_SCHOTTKY USBLC6-2SC6	1
U3BLC0-23C0	Protection USB Screw terminal or plug		301-23-6	U3BLC0-23C0	
PLUGIN_TERMINAL	terminal for power	J1		Power_Connector	1
SMA	RF Connector SMA Female 50 Ohms 18 GHz PCB Edge Mount	J2	CON-SMA-EDGE-S	CON-SMA-EDGE-S	1
USB4145-03-0170-C	USB Connector Type C SMT 16 Pin Vertical	J3	USB4145-03-0170-C	USB4145-03-0170-C	1
Header1x4	RF Connector SMA	J4		Header1x4	1
SMA_EDGE_CONN	Female 50 Ohms 18 GHz PCB Edge Mount	J5	CON-SMA-EDGE-S	CON-SMA-EDGE-S	1
uSD_CARD_HOLDER	ago modit	J6		uSD_CARD	1
JUMPER_3PIN		JP1	JUMPER_SMD_3	JUMPER_3PIN	1
47uH	Inductor SMD 0603	L1	IND_0603	IND_0603	1
2.2nH	Inductor SMD 1008	L2, L4, L5	IND_1008	IND_1008	3
2.2uH	Inductor SMD 1008	L3	IND_1008	IND_1008	1
L0603	Inductor SMD 0603	L6, L7	IND_0603	IND_0603	2
15u LED_RED	Inductor SMD 0603	L8 LD1	IND_0603	IND_0603	1 1
LED_GREEN	Typical BLUE SiC LED Typical BLUE SiC LED	LD2	3.5X2.8X1.9 3.5X2.8X1.9	LED_RED LED_GREEN	1
FDS4435	Typical bede sid teb	Q1	3.3A2.0A1.7	FDS4435	1
FS8205		Q2		FS8205	1
0R05	Resistor SMD 0805	R1	RES_0805	RES_0805	1
27k	Resistor SMD 0603	R2	RES_0603	RES_0603	1
1k5	Resistor SMD 0603	R3	RES_0603	RES_0603	1
120R	Resistor SMD 0603	R4 R5	RES_0603	RES_0603	1
3k 100R	Resistor SMD 0603 Resistor SMD 0603	R6, R8	RES_0603 RES_0603	RES_0603 RES_0603	1 2
2k	Resistor SMD 0603	R7	RES_0603	RES_0603_1	1
5.1k	Resistor SMD 0603	R9, R13, R14	RES_0603	RES_0603	3
4k7	Resistor SMD 0603	R10, R11, R12	RES_0603	RES_0603	3
PTS645SM43SMTR92 LFS	Switch	SW1	SW_PB	SW-PB	1
CN3801	LiFePO4 charge IC with integrated MPPT and wide input range (4.5 to 28V) with deeply discharged cell revive	U1		CN3801	1
HY2112	LiFePO4 protection IC	U2		HY2112	1
TPS63000_1	Buck-Boost Switching Regulator IC Positive Adjustable 1.2V 1 Output 1.6A _Switch_ 10-VFDFN Exposed Pad	U3	10-VFDFN	TPS63000_1	1
W25Q16JVUXIQ	16M-BIT SERIAL FLASH MEMORY WITH DUAL/QUAD SPI USON- 8	U4	USON-8-2X3MM	W25Q16JVUXIQ	1
ESP32-C3	Ultra-Low-Power SoC with RISC-V Single-Core CPU Supporting IEEE 802.11b/g/n (2.4 GHz Wi-Fi) and Bluetooth® 5 (LE)	U5	QFN32-5x5	ESP32-C3	1
SX1280	Low power LoRa transceiver operating at 2.4GHz with ranging capability	U6		SX1280	1
	ST25DO4K NFC	U7		ST25DV04K	1
ST25DV04K	module with I2C				
ST25DV04K XTAL_2016	module with I2C Crystal SMD 4-Pin 2.0x1.6mm	X1	XTAL_2016	XTAL_2016	1
	Crystal SMD 4-Pin	X1 X2 Y1	XTAL_2016 SX-3215 XTAL_3225	XTAL_2016 CRYSTAL_1	1 1 1