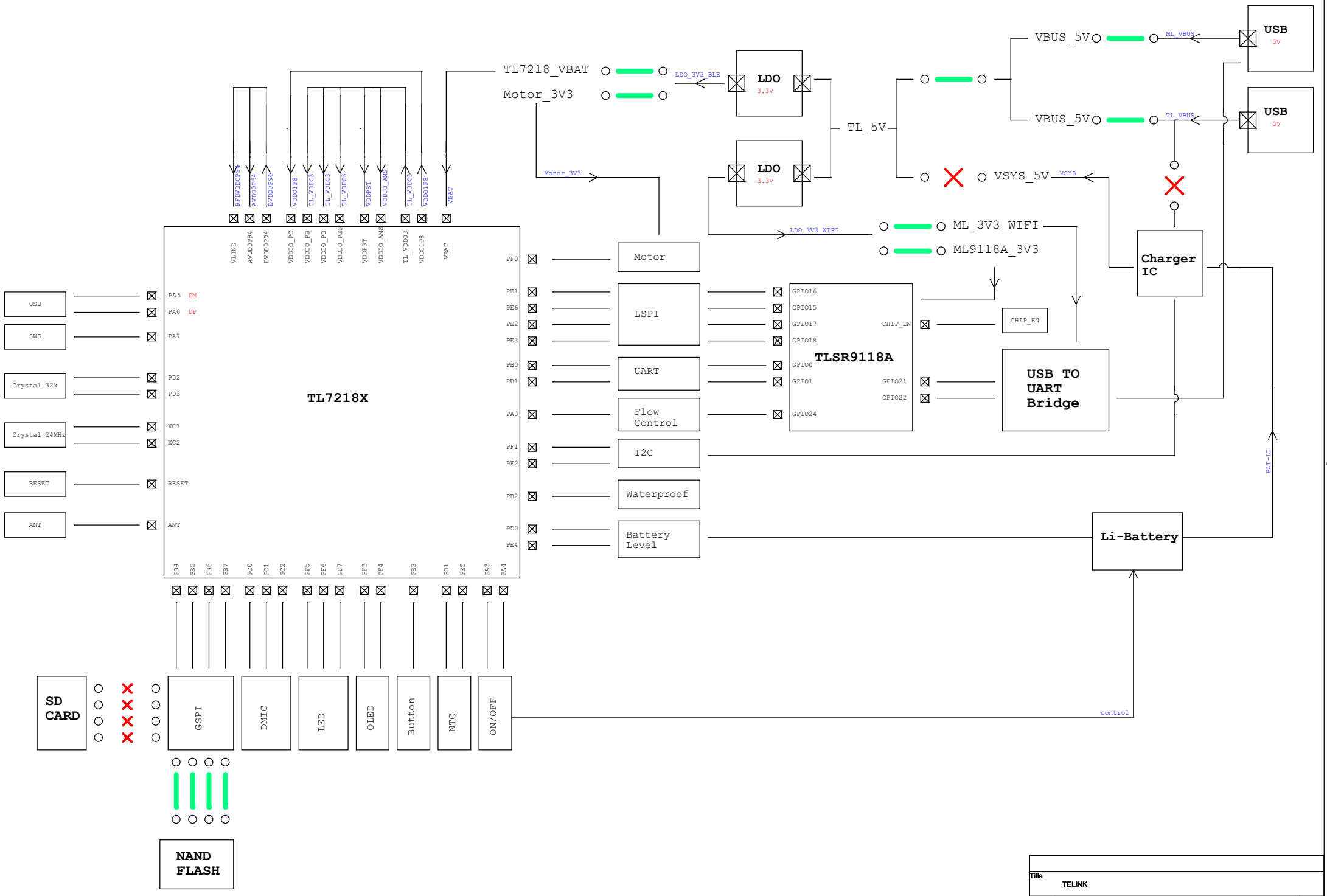
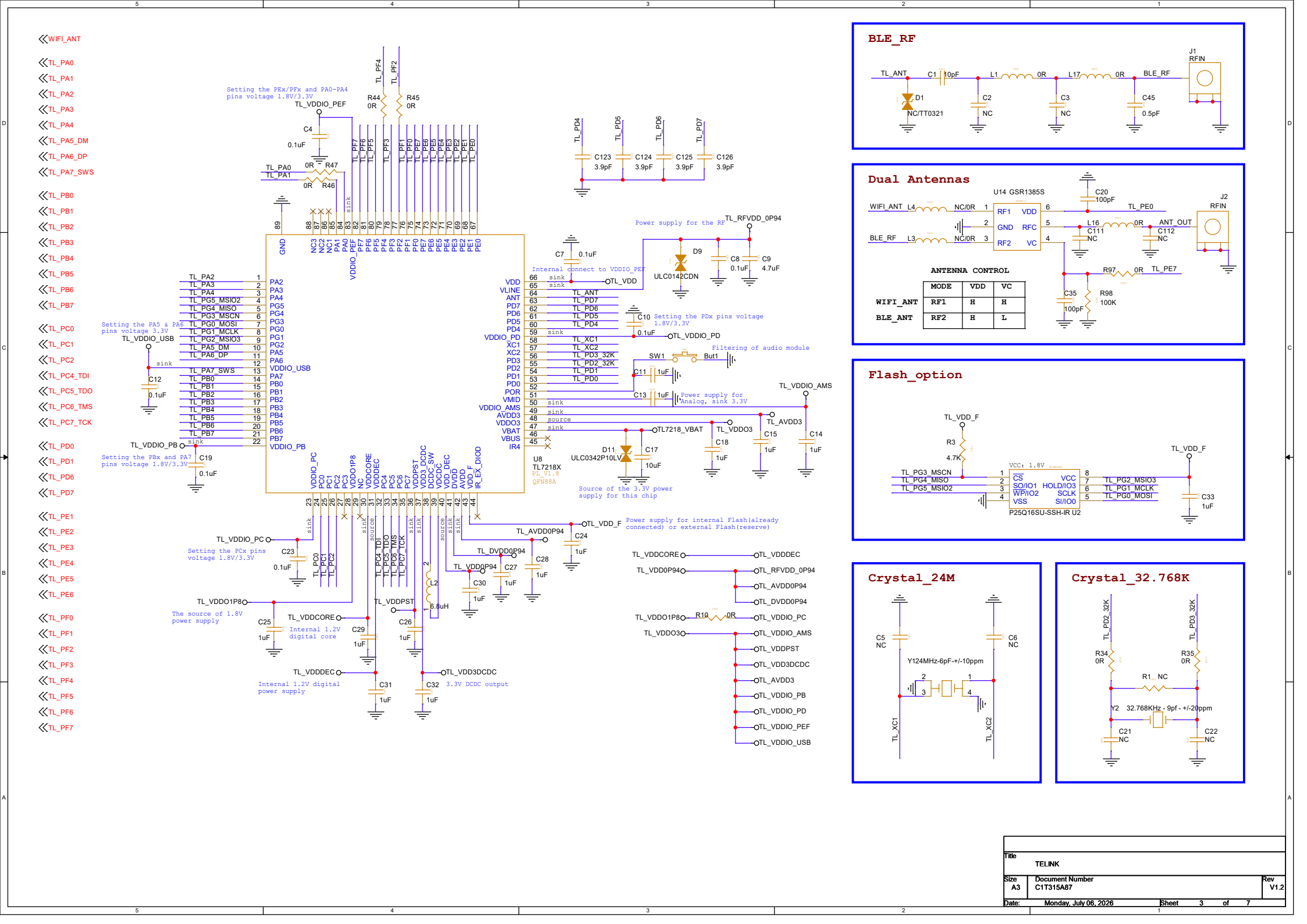
	Date	Note	Author	Approved by
REV1.0	2025/9/22	Initial Version	chendi	jianbo
REV1.1	2025/12/15	1.Remove the charger IC and peripheral circuitry; 2.Adjusted the OLED's I/O interface; 3.Add a 33Ω series resistor to the NAND flash CLK to adapt for 32Gb NAND.	chendi	jianbo
REV1.2	2025/07/03	Updated Nandflash Flash package and added pull-up resistor footprints for NC I/0 pins.	chendi	jianbo

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BLE_RF

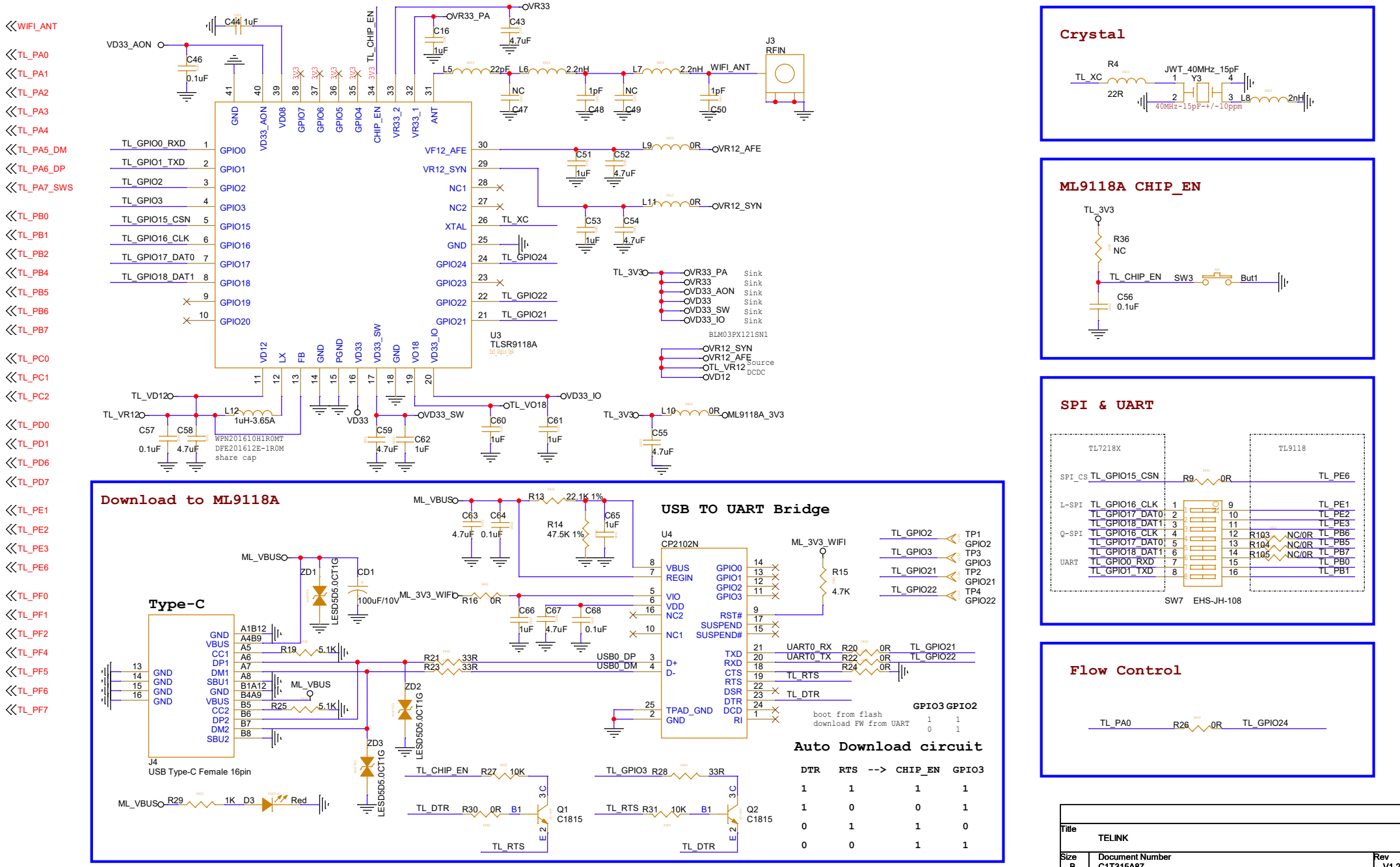
Dual Antennas

Flash_option

Crystal_24M

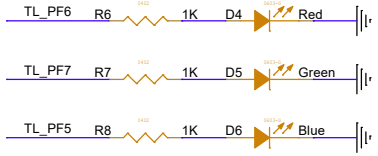
Crystal_32.768K

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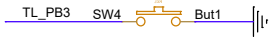

WIFI_ANT
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TL_PA2
TL_PA3
TL_PA4
TL_PA5_DM
TL_PA6_DP
TL_PA7_SWS
TL_PB0
TL_PB1
TL_PB2
TL_PB4
TL_PB5
TL_PB6
TL_PB7
TL_PC0
TL_PC1
TL_PC2
TL_PD0
TL_PD1
TL_PD6
TL_PD7
TL_PE1
TL_PE2
TL_PE3
TL_PE6
TL_PF0
TL_PF1
TL_PF2
TL_PF4
TL_PF5
TL_PF6
TL_PF7
U3
TLSR9118A
GPIO0_RXD
GPIO1_TXD
GPIO2
GPIO3
GPIO15_CSN
GPIO16_CLK
GPIO17_DAT0
GPIO18_DAT1
VF12_AFE
VR12_SYN
XTAL
GPIO24
GPIO23
GPIO22
GPIO21
VD12
LX
FB
PGND
VO18
VD33_SW
VD33_IO
VD33_AON
VD08
CHIP_EN
VR33_2
VR33_1
ANT
VR33_PA
VR33
VD33
VD12
VR12
VR12_AFE
TL_VR12
VD33_SW
VD33_IO
TL_VO18
ML9118A_3V3
WPN201610H1R0MT
DFE201612E-1R0M
share cap
BLM03PX121SN1
Sink
Source
DCDC
J3
RFIN
WIFI_ANT
TL_XC
TL_GPIO24
TL_GPIO22
TL_GPIO21
Download to ML9118A
Type-C
J4
USB Type-C Female 16pin
USB TO UART Bridge
U4
CP2102N
ML_VBUS
ML_3V3_WIFI
USB0_DP
USB0_DM
UART0_RX
UART0_TX
TL_RTS
TL_DTR
boot from flash
download FW from UART
Auto Download circuit
DTR RTS --> CHIP_EN GPIO3
1 1 1 1
1 0 0 1
0 1 1 0
0 0 1 1
Q1
C1815
Q2
C1815
Red
Crystal
JWT_40MHz_15pF
40MHz-15pF-+/-10ppm
ML9118A CHIP_EN
SW3
But1
SPI & UART
TL7218X
TL9118
SPI_CS
L-SPI
Q-SPI
UART
SW7 EHS-JH-108
Flow Control
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TL_PA0
TL_PA1
TL_PA2
TL_PA3
TL_PA4
TL_PA5_DM
TL_PA6_DP
TL_PA7_SWS
TL_PB0
TL_PB1
TL_PB2
TL_PB3
TL_PB4
TL_PB5
TL_PB6
TL_PB7
TL_PC0
TL_PC1
TL_PC2
TL_PC4_TDI
TL_PC5_TDO
TL_PC6_TMS
TL_PC7_TCK
TL_PD0
TL_PD1
TL_PD6
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TL_PE4
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TL_PF6
TL_PF7

LED



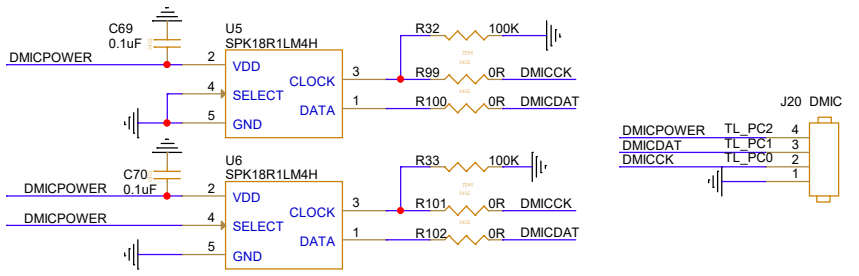
Button



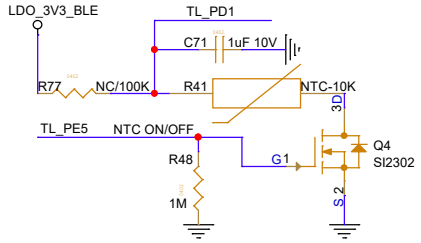
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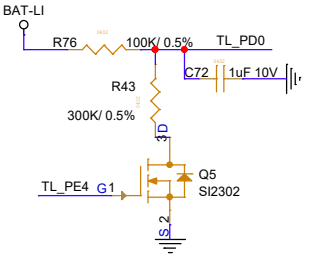
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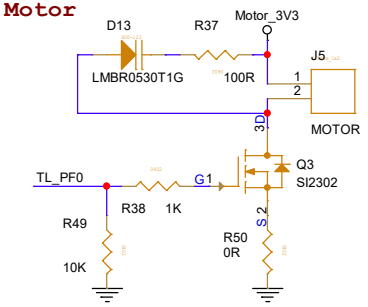
NTC



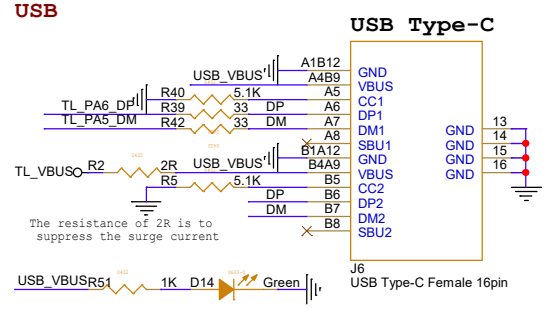
Battery Level



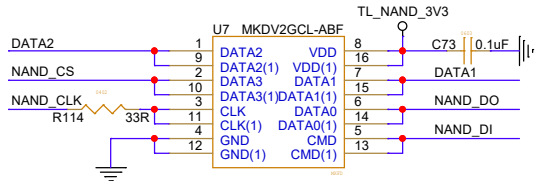
Motor

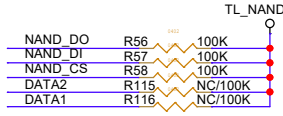


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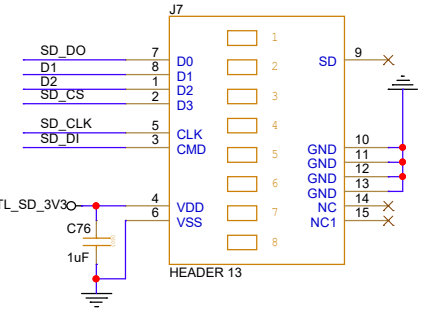


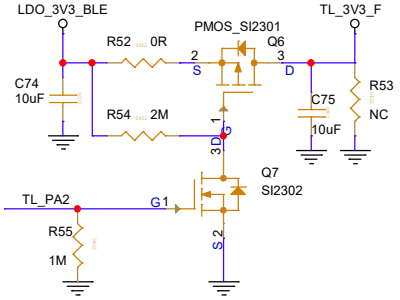
NAND FLASH GSPI



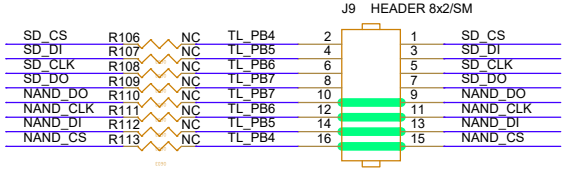


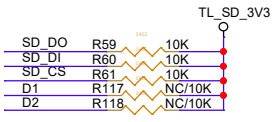
SD CARD

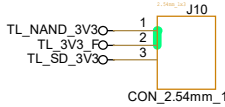




PA2 controls the power on/off for Nand flash or SD Card

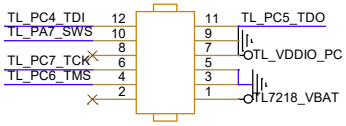


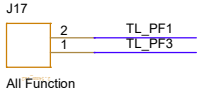




Power supply for Nand flash or SD Card

BLE Debug IO

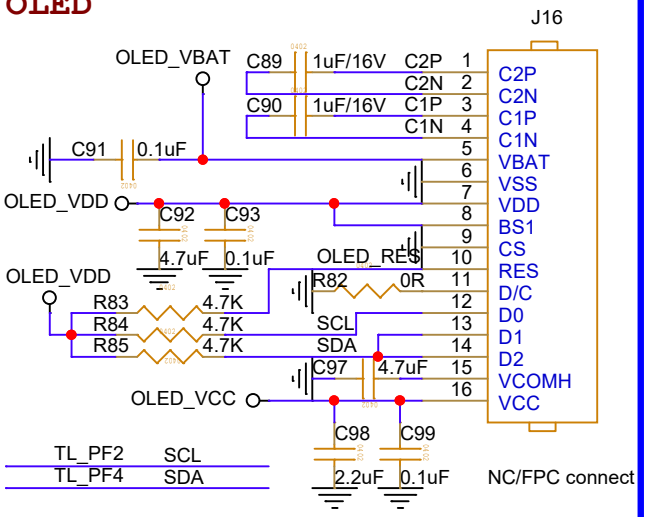


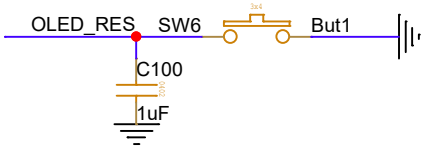


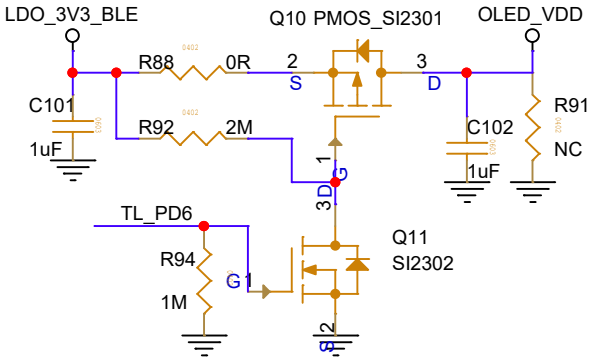
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TL_PD6
TL_PD7
TL_PF2
TL_PF4
TL_PF6
TL_PF7

OLED

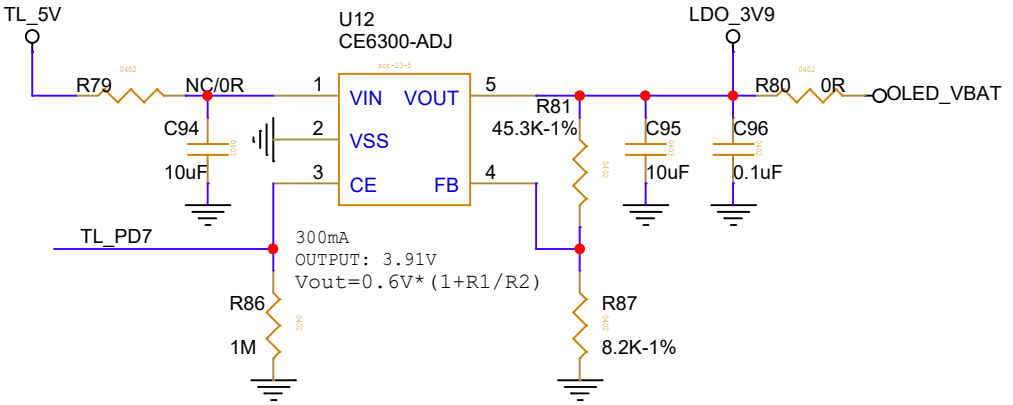




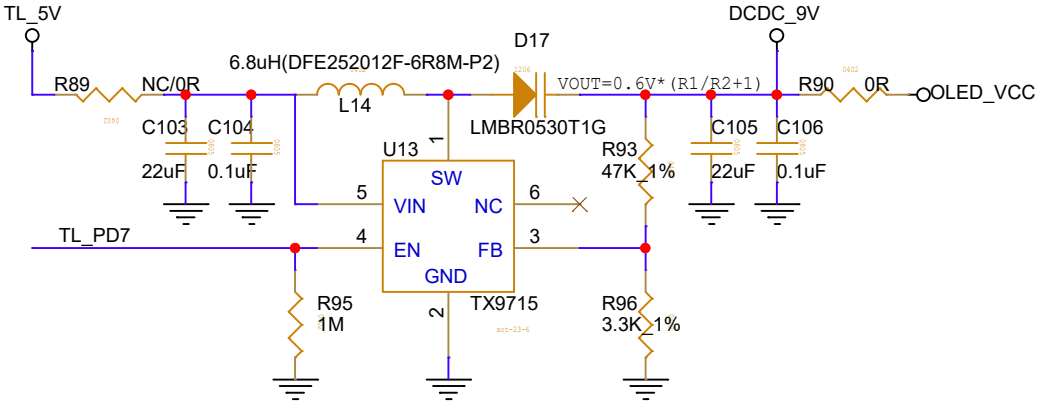


PC6 controls the power on/off for OLED_VBAT_3V9

LDO 3V8: Power for OLED

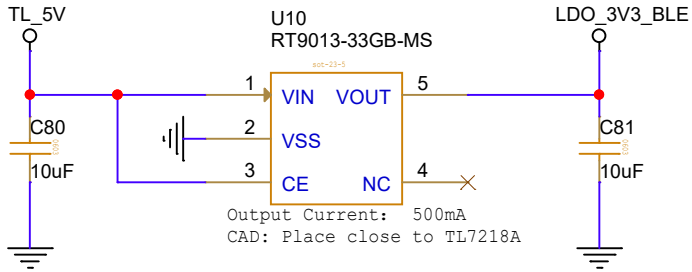


BOOST 9V: Power for OLED

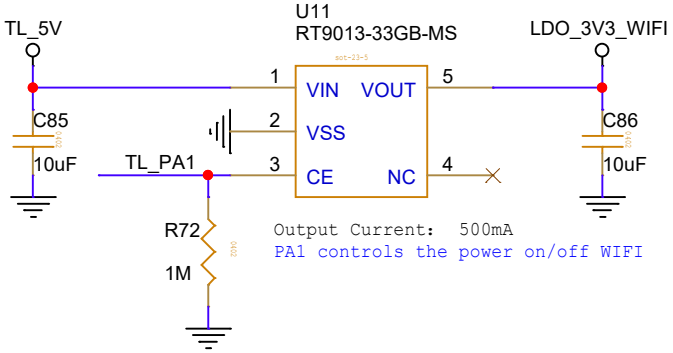


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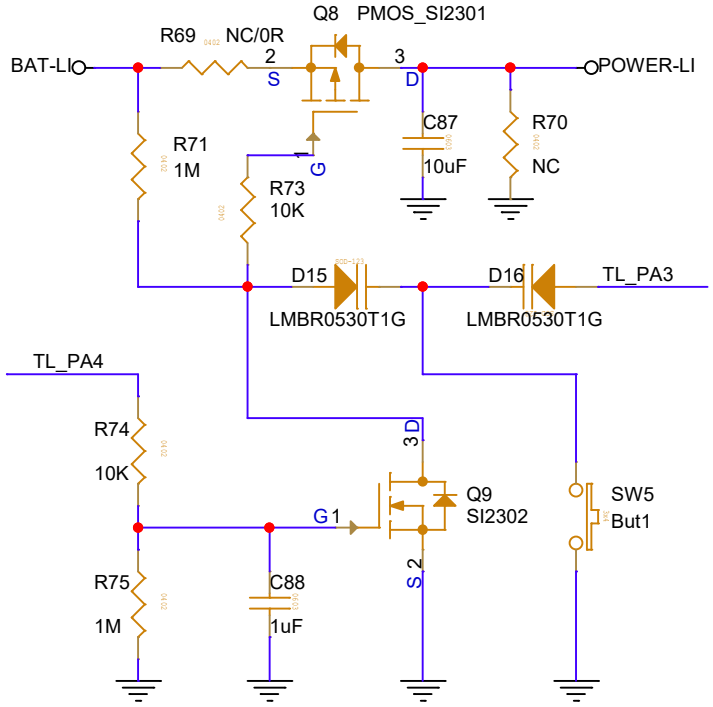
LDO 3V3: Power for TL7218A



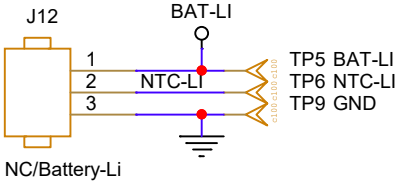
LDO 3V3: Power for ML9118A

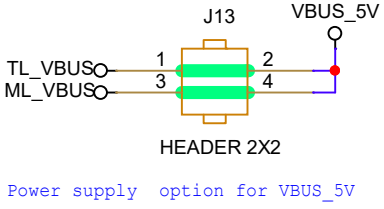


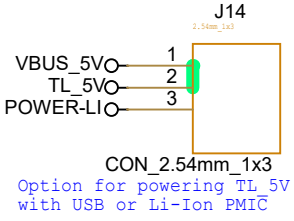
ON/OFF

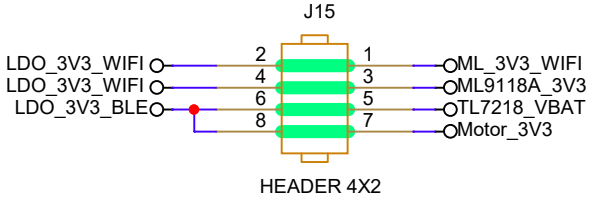


TL_PA1
TL_PA3
TL_PA4









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