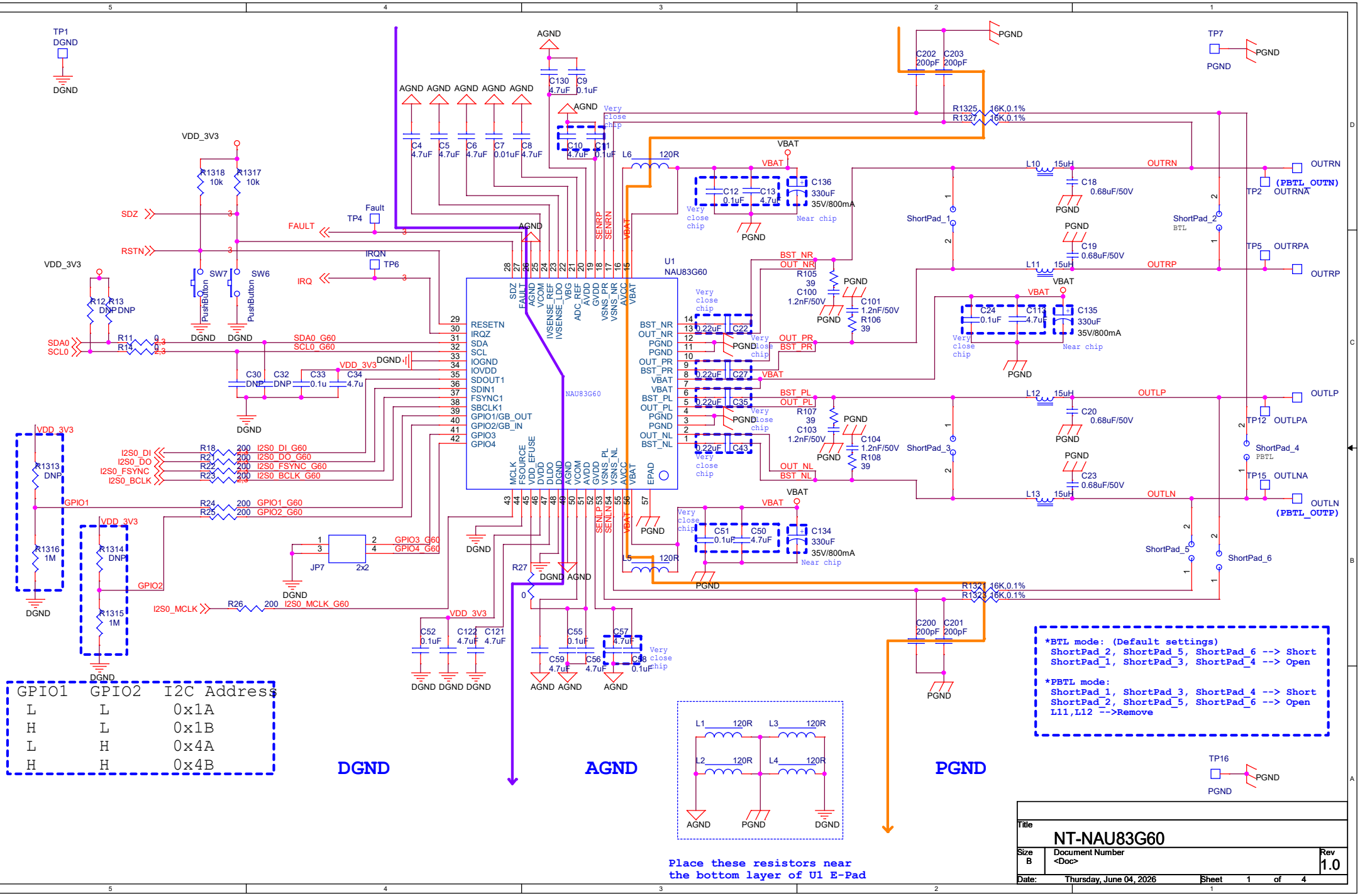
U1
NAU83G60
RESETN
IRQZ
SDA
SCL
IOGND
IOVDD
SDOUT1
SDIN1
FSYNC1
SBCLK1
GPIO1/GB_OUT
GPIO2/GB_IN
GPIO3
GPIO4
MCLK
FSOURCE
VDD_EFUSE
DVDD
DLDO
DGND
AGND
VCOM
AVDD
GVDD
VSNS_PL
VSNS_NL
AVCC
VBAT
EPAD
SDZ
FAULT
IVSENSE_REF
IVSENSE_LDO
VBG
ADC_REF
SENRP
SENRN
BST_NR
OUT_NR
BST_PR
OUT_PR
BST_PL
OUT_PL
BST_NL
OUT_NL
SENLP
SENLN
VDD_3V3
SDA0
SCL0
I2S0_DI
I2S0_DO
I2S0_FSYNC
I2S0_BCLK
GPIO1
GPIO2
I2S0_MCLK
GPIO3_G60
GPIO4_G60
OUTRN
OUTRP
OUTLP
OUTLN
VBAT
PGND
DGND
AGND
GPIO1 GPIO2 I2C Address
L L 0x1A
H L 0x1B
L H 0x4A
H H 0x4B
DGND
AGND
PGND
Place these resistors near the bottom layer of U1 E-Pad
*BTL mode: (Default settings)
ShortPad_2, ShortPad_5, ShortPad_6 --> Short
ShortPad_1, ShortPad_3, ShortPad_4 --> Open
*PBTL mode:
ShortPad_1, ShortPad_3, ShortPad_4 --> Short
ShortPad_2, ShortPad_5, ShortPad_6 --> Open
L11,L12 -->Remove
Title
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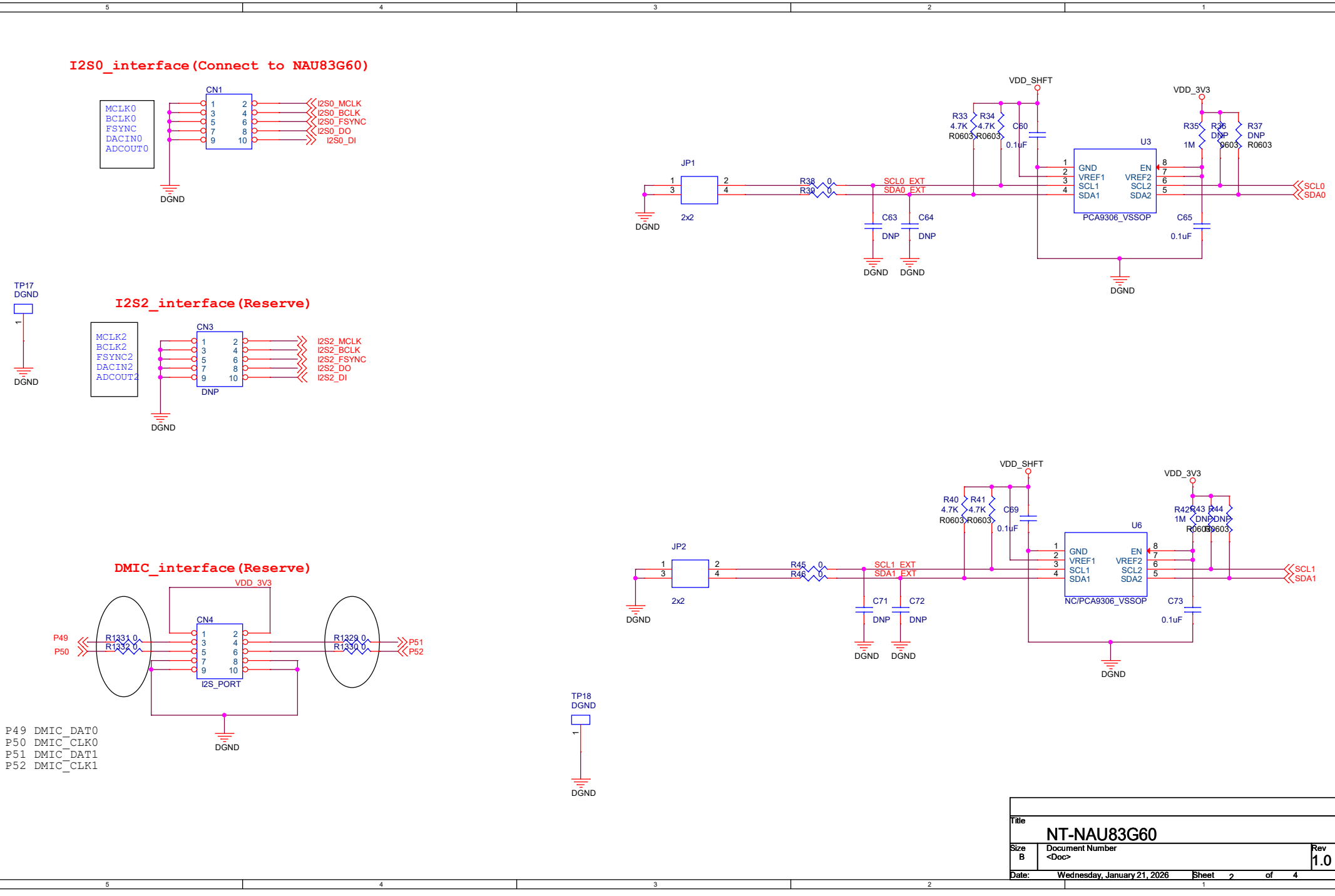
I2S0_interface(Connect to NAU83G60)
MCLK0
BCLK0
FSYNC
DACIN0
ADCOUT0
CN1
I2S0_MCLK
I2S0_BCLK
I2S0_FSYNC
I2S0_DO
I2S0_DI
DGND
VDD_SHFT
VDD_3V3
JP1
2x2
R33 4.7K R0603
R34 4.7K R0603
C60 0.1uF
R38 0
R39 0
SCL0_EXT
SDA0_EXT
U3
GND
VREF1
SCL1
SDA1
EN
VREF2
SCL2
SDA2
PCA9306_VSSOP
R35 1M
R36 DNP 0603
R37 DNP R0603
C63 DNP
C64 DNP
C65 0.1uF
SCL0
SDA0
TP17
DGND
I2S2_interface(Reserve)
MCLK2
BCLK2
FSYNC2
DACIN2
ADCOUT2
CN3
DNP
I2S2_MCLK
I2S2_BCLK
I2S2_FSYNC
I2S2_DO
I2S2_DI
JP2
R40 4.7K R0603
R41 4.7K R0603
C69 0.1uF
R45 0
R46 0
SCL1_EXT
SDA1_EXT
U6
NC/PCA9306_VSSOP
R42 1M
R43 DNP 0603
R44 DNP 0603
C71 DNP
C72 DNP
C73 0.1uF
SCL1
SDA1
DMIC_interface(Reserve)
CN4
I2S_PORT
P49
P50
P51
P52
R1331 0
R1332 0
R1329 0
R1330 0
P49 DMIC_DAT0
P50 DMIC_CLK0
P51 DMIC_DAT1
P52 DMIC_CLK1
TP18
DGND
Title
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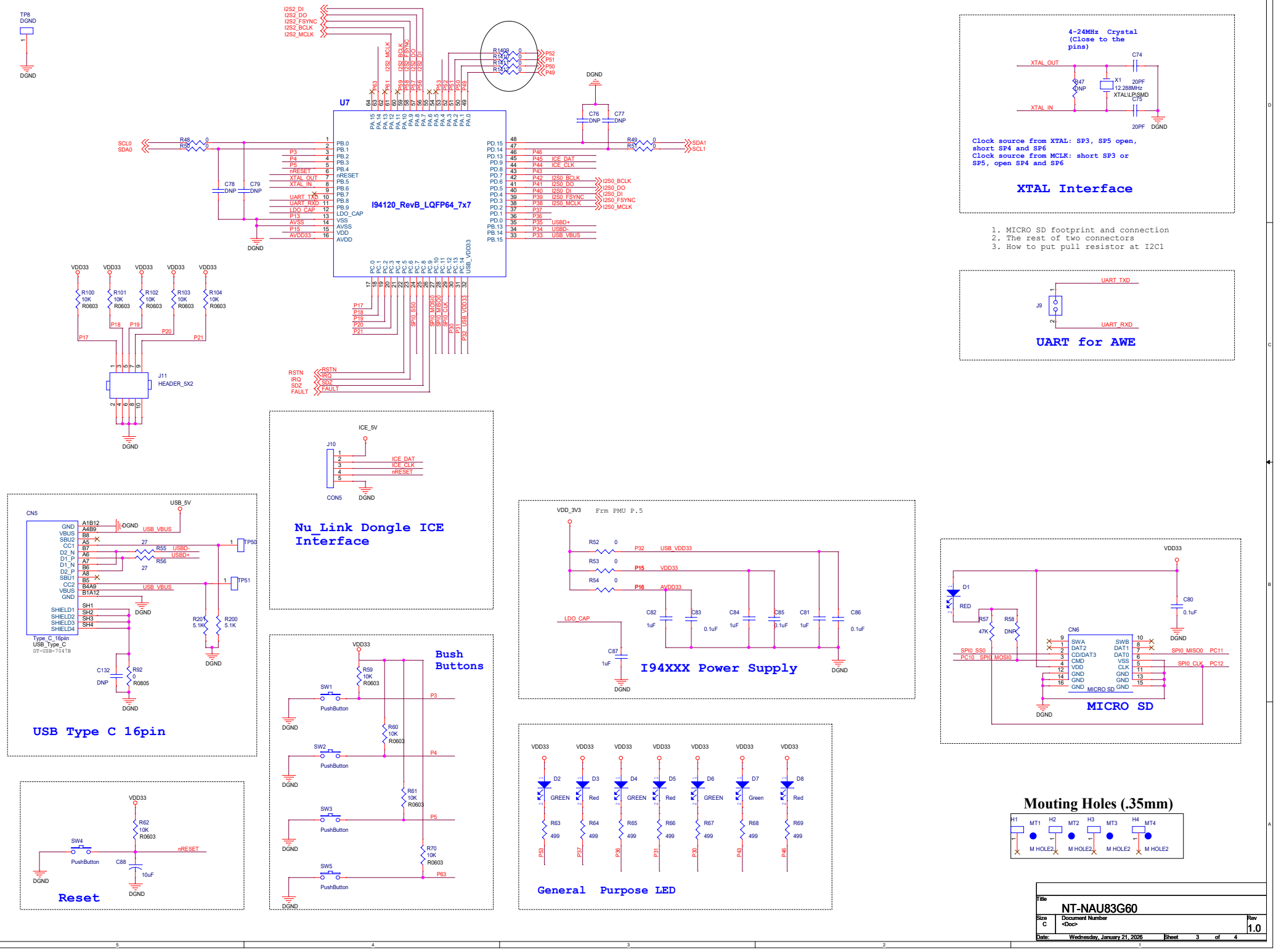
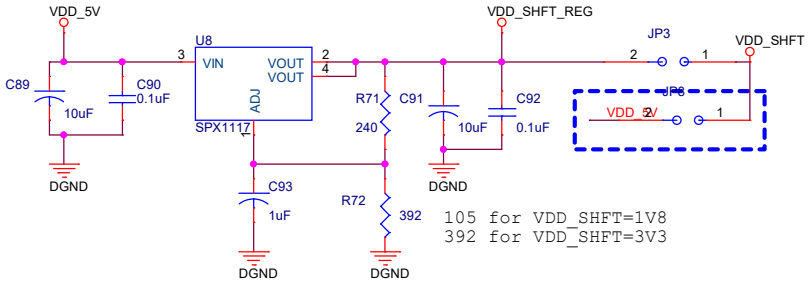
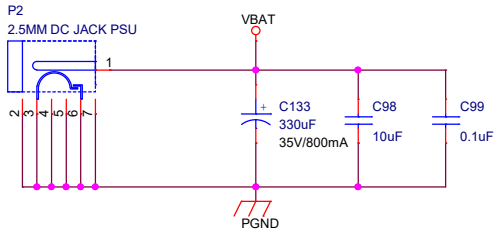
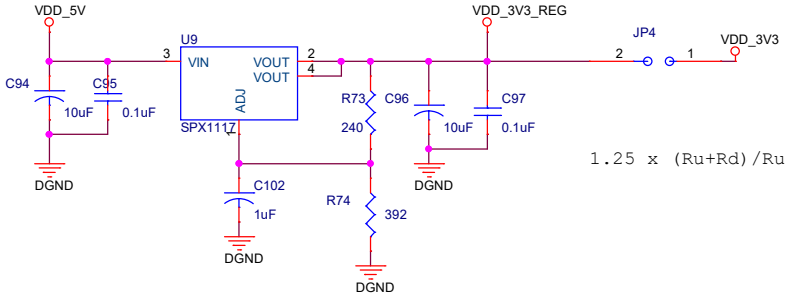
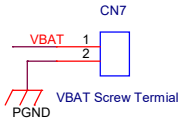
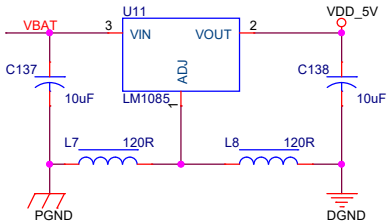

I94120_RevB_LQFP64_7x7
XTAL Interface
4-24MHz Crystal (Close to the pins)
Clock source from XTAL: SP3, SP5 open, short SP4 and SP6
Clock source from MCLK: short SP3 or SP5, open SP4 and SP6
1. MICRO SD footprint and connection
2. The rest of two connectors
3. How to put pull resistor at I2C1
UART for AWE
Nu_Link Dongle ICE Interface
I94XXX Power Supply
MICRO SD
USB Type C 16pin
Bush Buttons
Reset
General Purpose LED
Mouting Holes (.35mm)
NT-NAU83G60
Rev 1.0
Wednesday, January 21, 2026

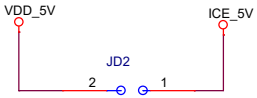












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