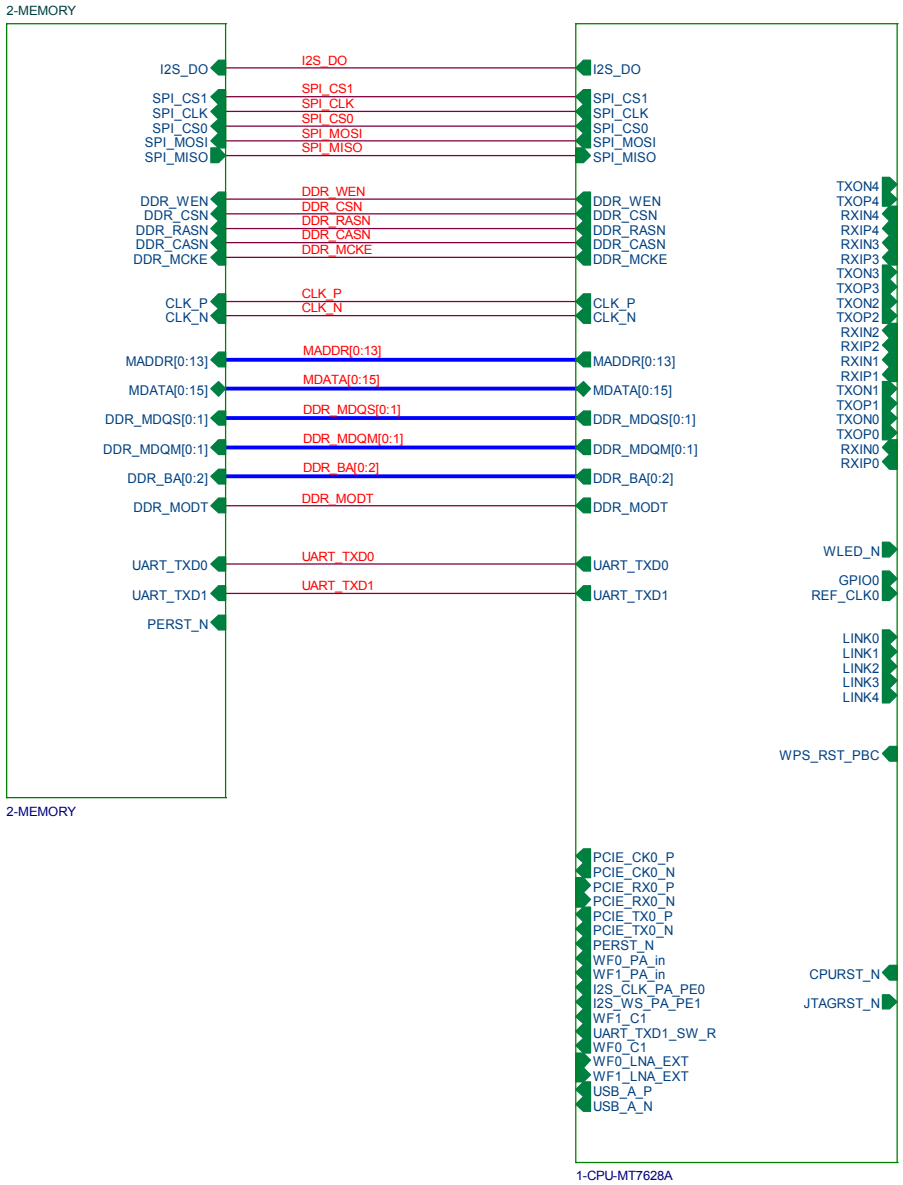

Size	Document Number	Rev
B	11n 2.4G AP-MT7628A.SCH	RD4
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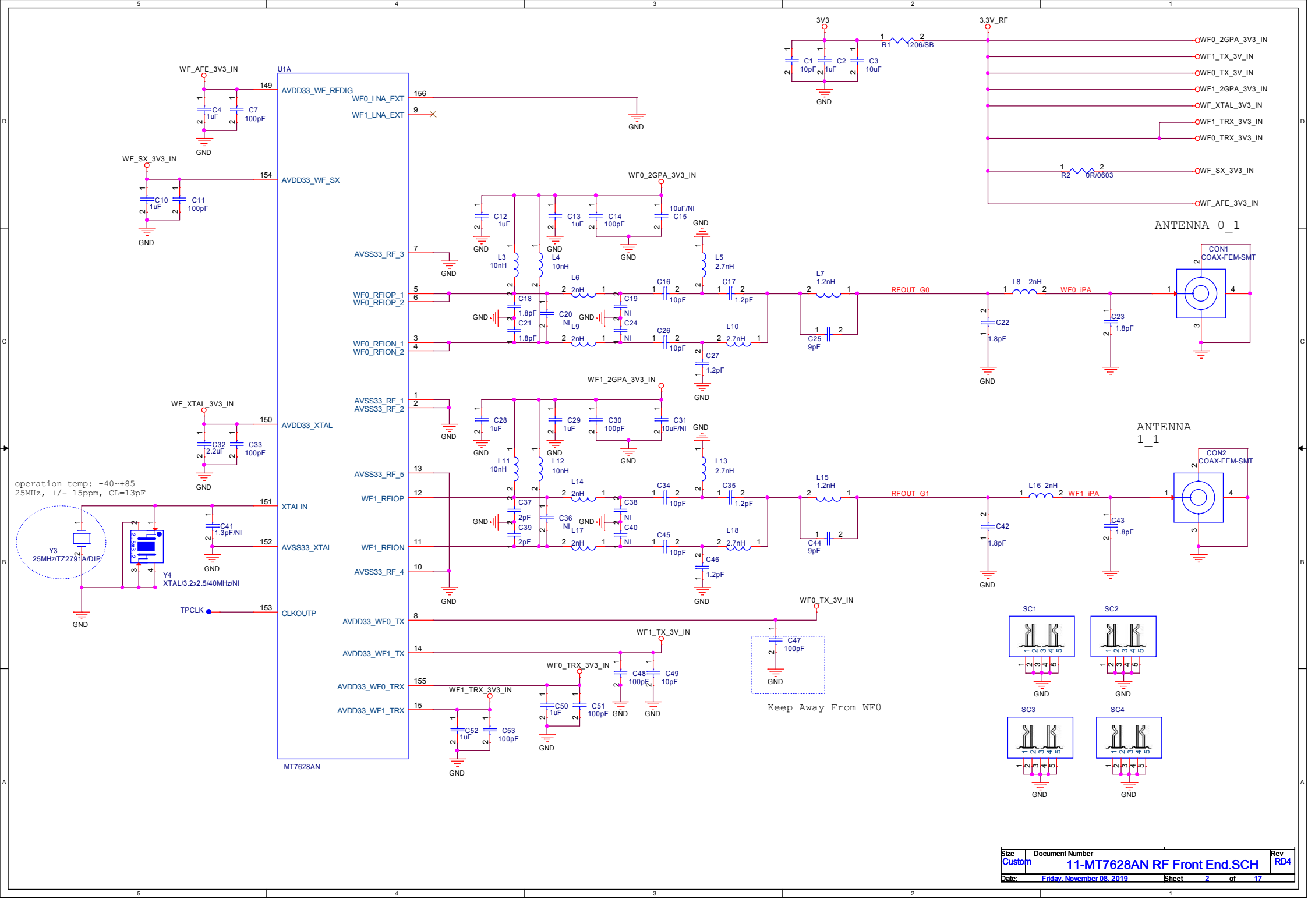
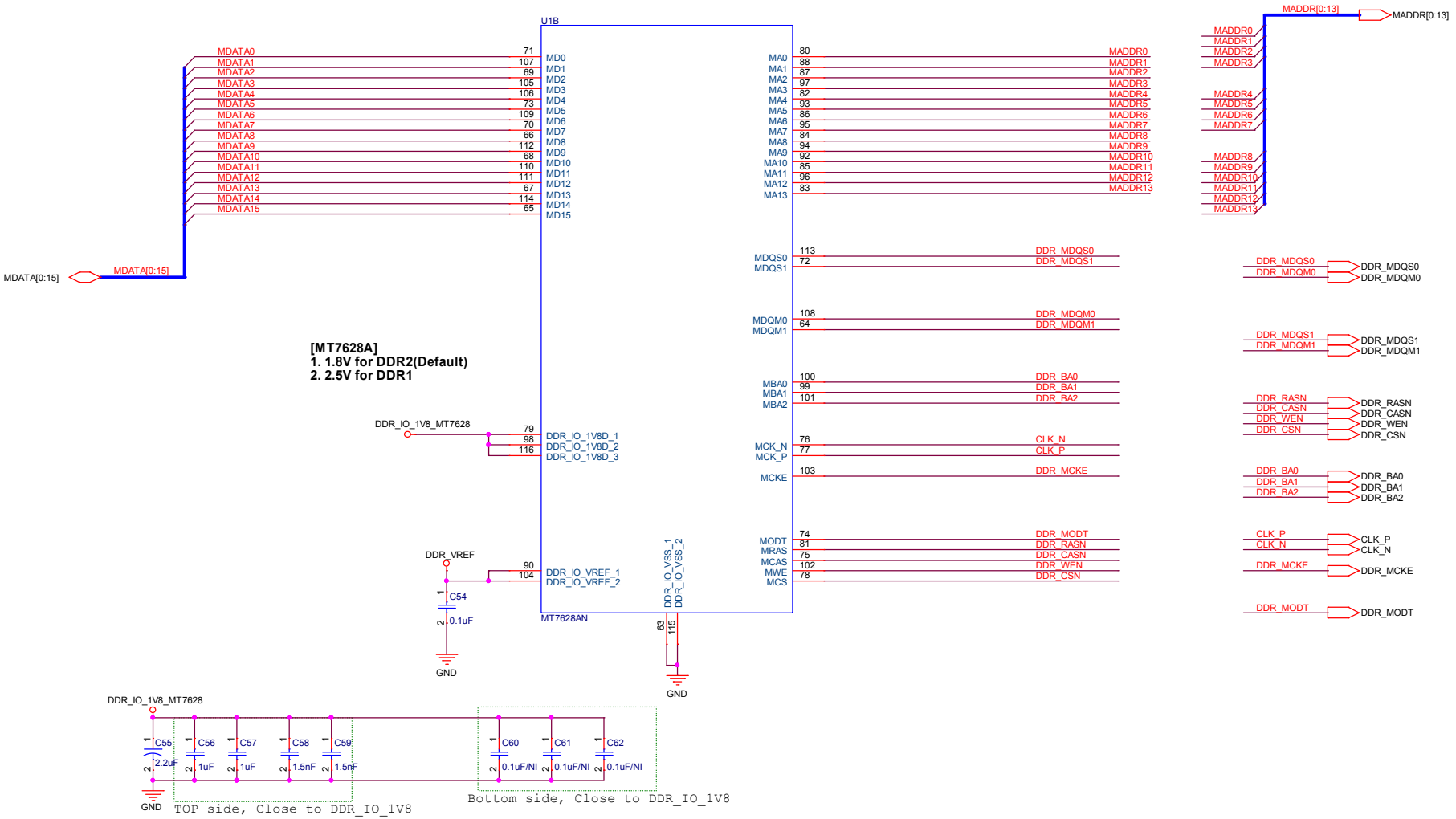
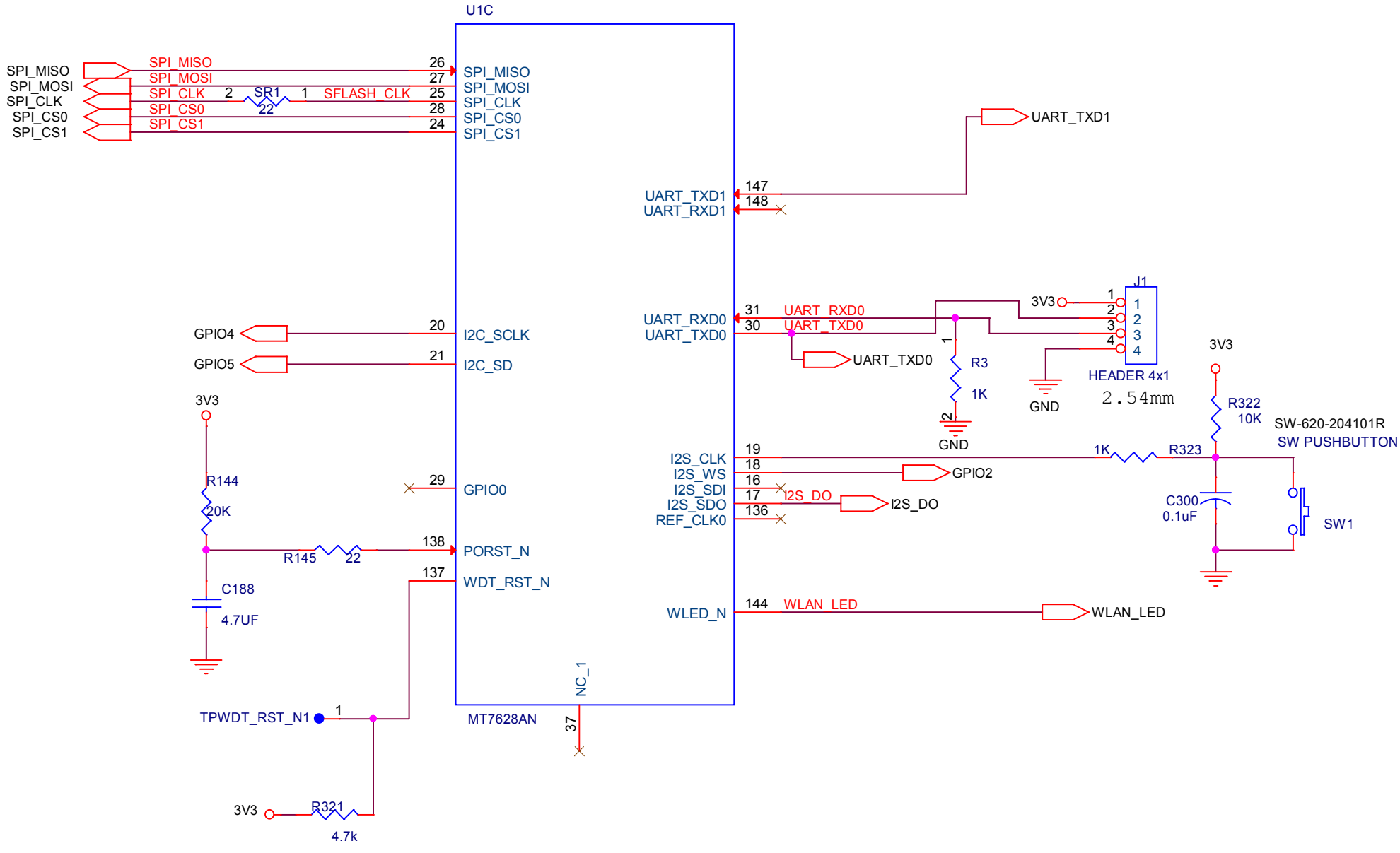


Size: Custom	Document Number: 11-MT7628AN RF Front End.SCH		Rev: RD4
Date: Friday, November 08, 2019	Sheet 2 of 17		

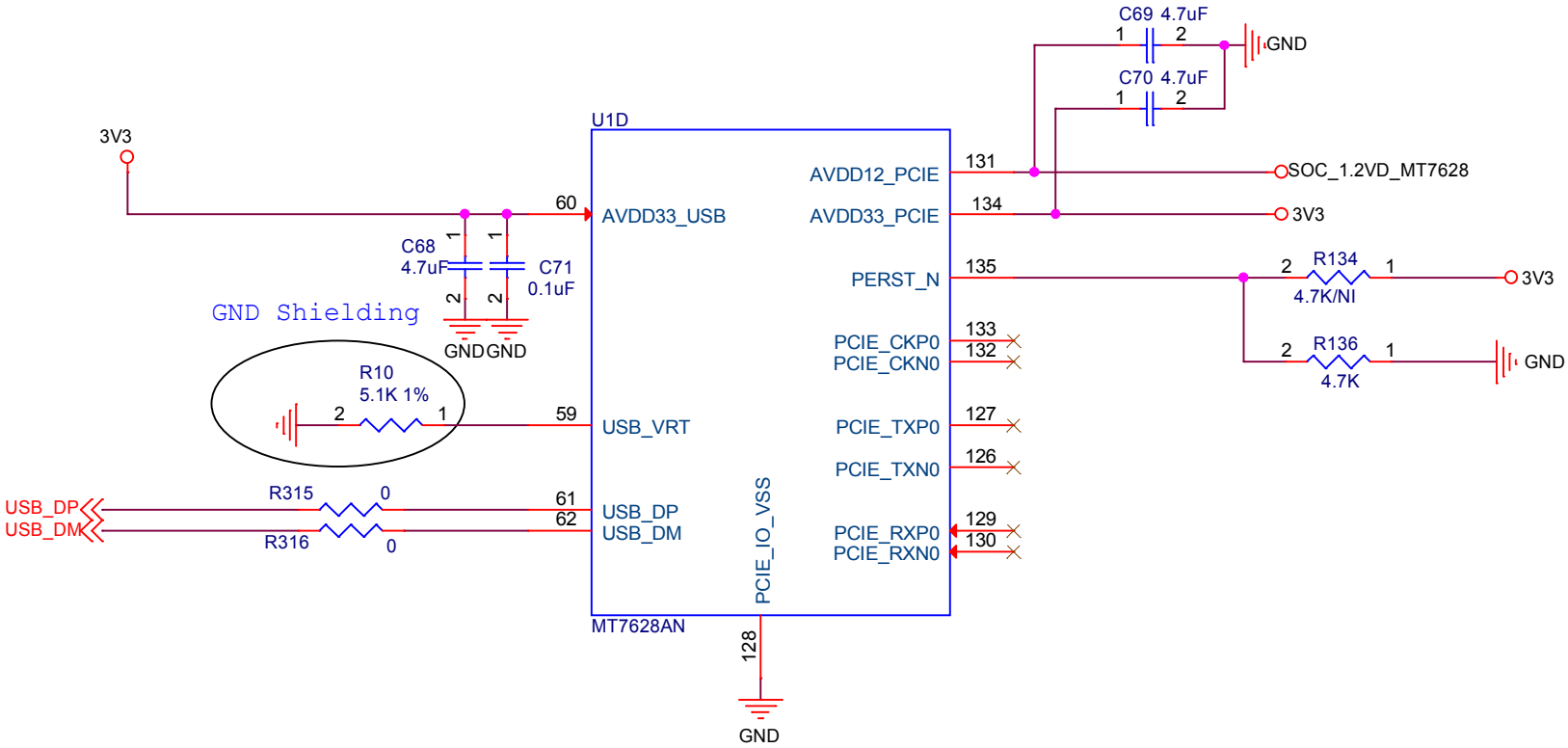


Size	Document Number	Rev
Custom	12-MT7628AN DDR2 I/F.SCH	RD4
Date: Friday, November 08, 2019	Sheet 3 of 17	

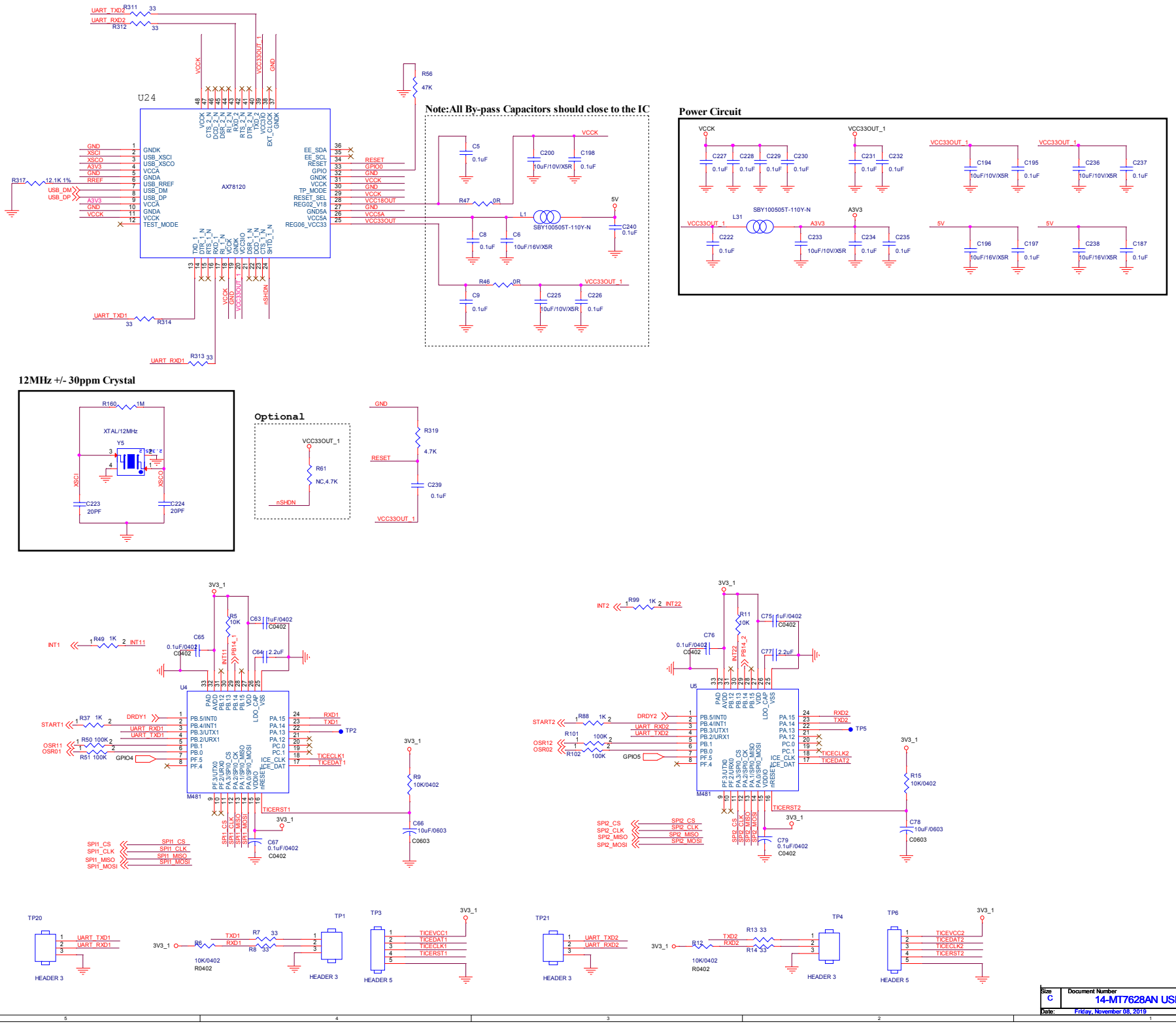


MT7628A Pheripheral

Size	Document Number	Rev
A	13-MT7628AN Pheripheral-C.SCH	RD4
Date: Friday, November 08, 2019	Sheet 4 of 17	



M481		
Size: A	Document Number: M481.SCH	Rev: RD4
Date: Friday, November 08, 2019	Sheet 5 of 17	


U24
AX78120
Note:All By-pass Capacitors should close to the IC
Power Circuit
12MHz +/- 30ppm Crystal
Optional
M481
U4
U5
TP20
TP1
TP3
TP21
TP4
TP6
HEADER 3
HEADER 5
Size C
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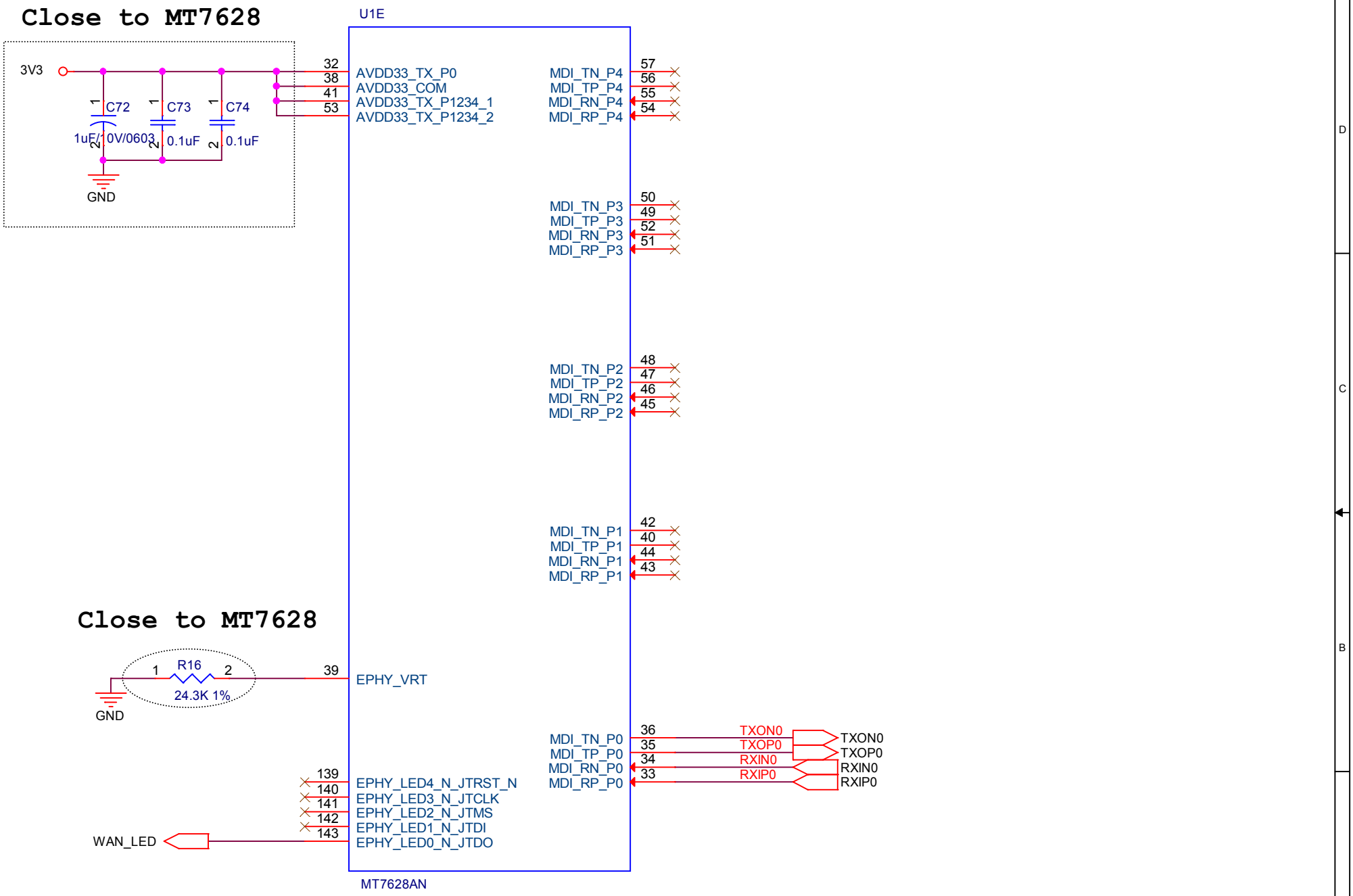
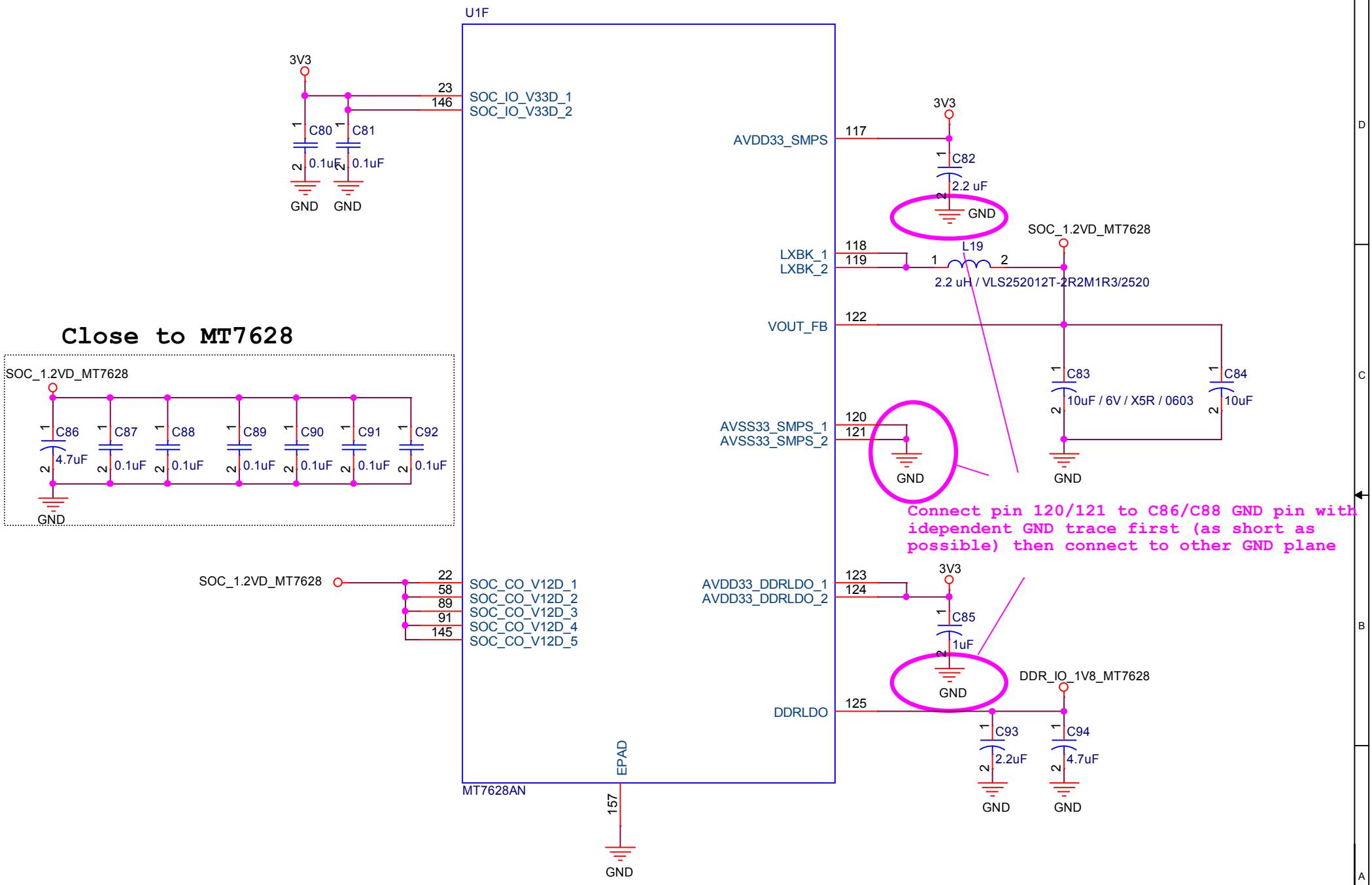


Size	Document Number	Rev
A	15-MT7628AN Ethernet-E.SCH	RD4
Date: Friday, November 08, 2019	Sheet 7 of 17	



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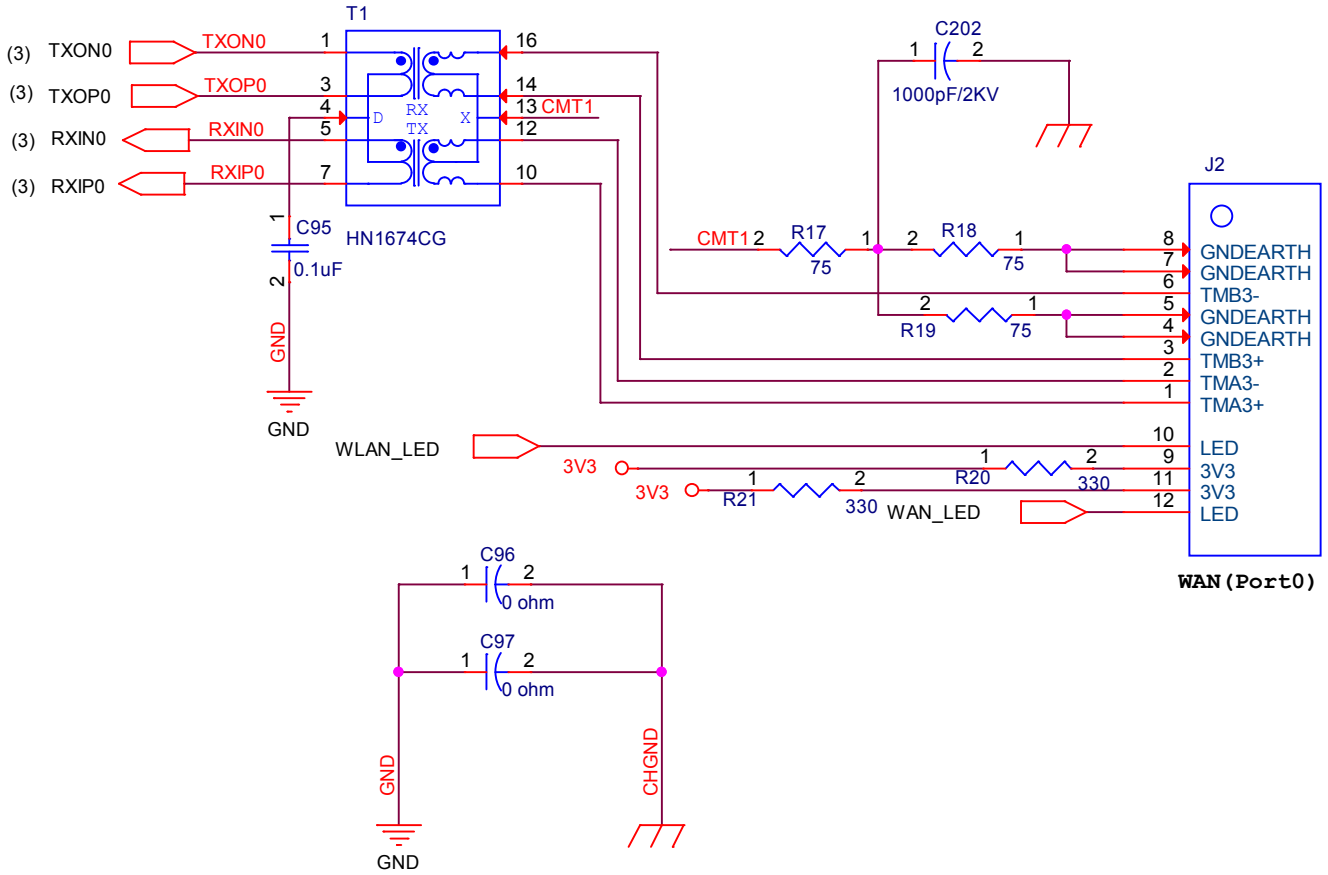
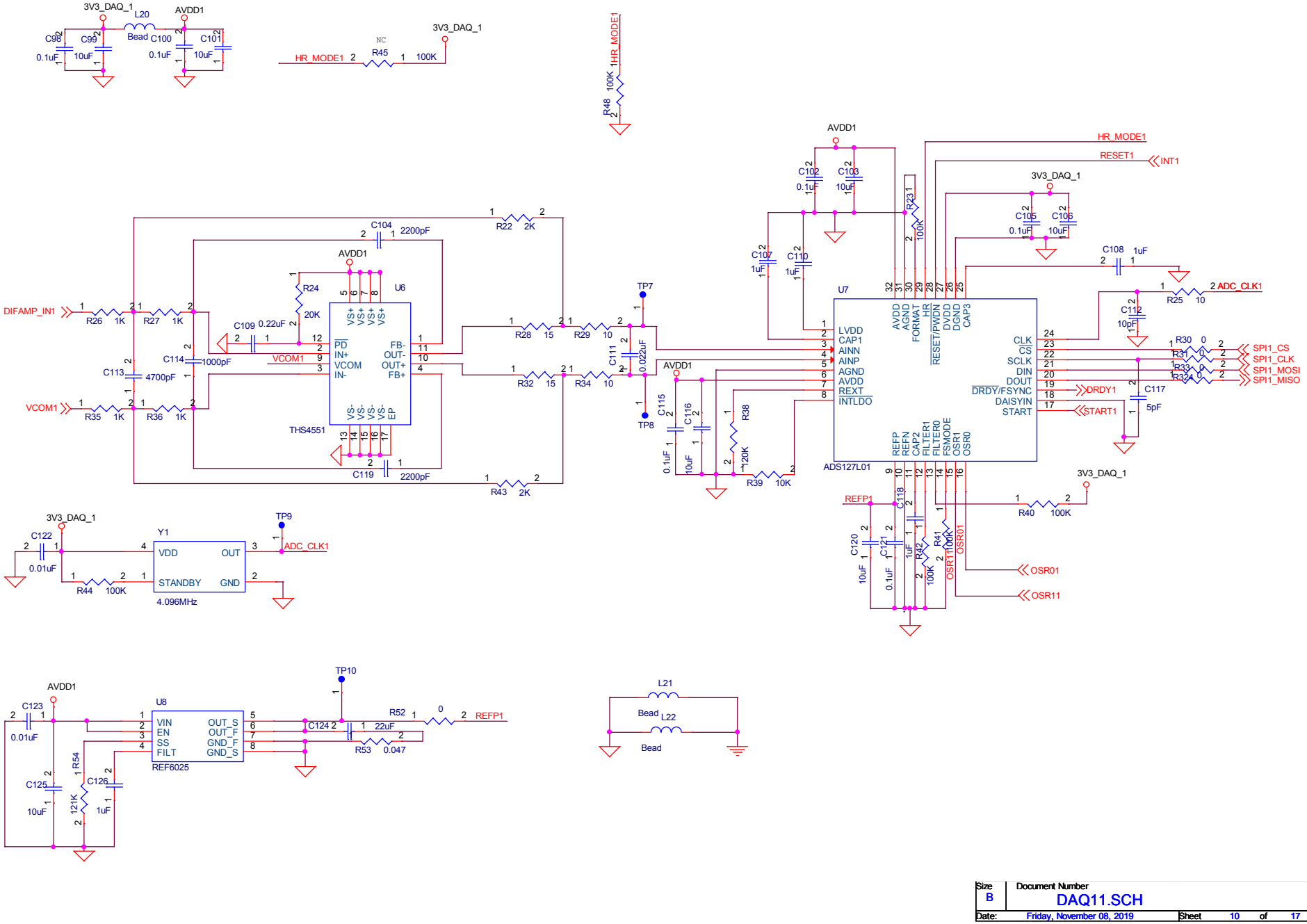
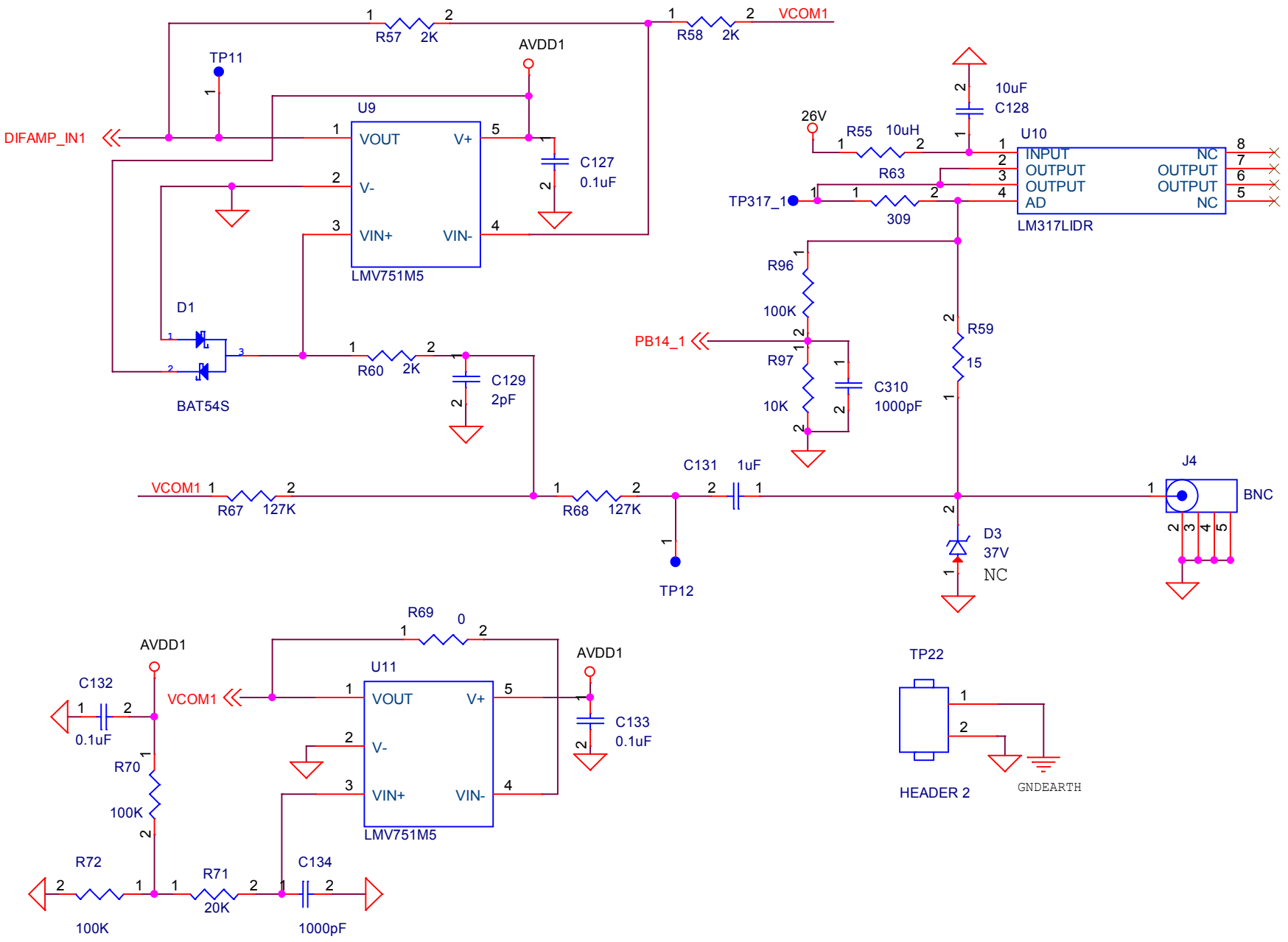
A	16-MT7628AN Power-F.SCH	RD4
Date: Friday, November 08, 2019	Sheet 8 of 17	



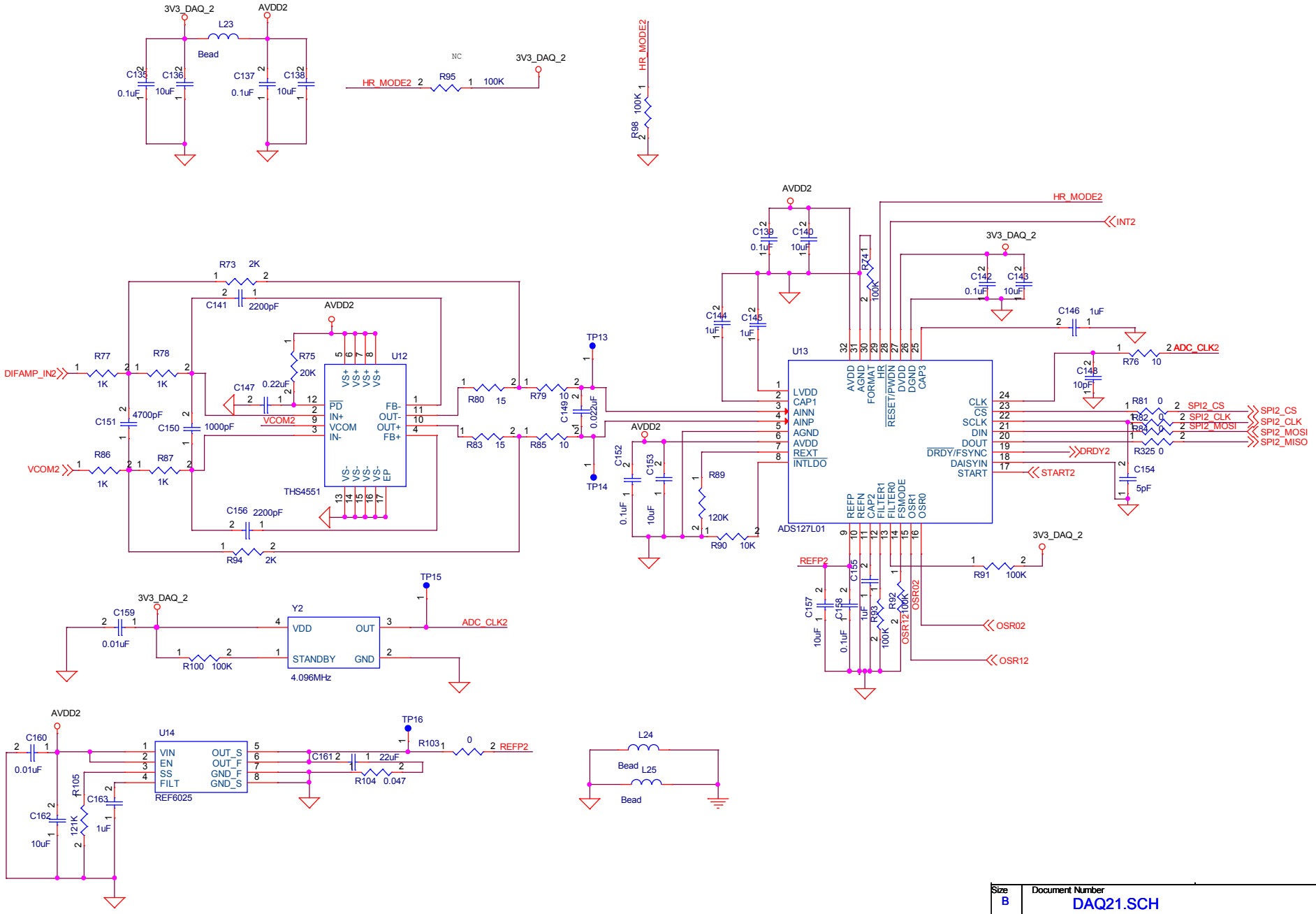
Size	Document Number	Rev
A	XMER-RJ45.SCH	RD4
Date: Friday, November 08, 2019	Sheet 9 of 17	



Size	Document Number	Rev
B	DAQ11.SCH	RD4
Date: Friday, November 08, 2019	Sheet 10 of 17	



Size	Document Number	Rev
A	DAQ12.SCH	RD4
Date: Friday, November 08, 2019	Sheet 11 of 17	


3V3_DAQ_2
AVDD2
L23
Bead
C135 0.1uF
C136 10uF
C137 0.1uF
C138 10uF
NC
HR_MODE2
R95 100K
R98 100K
DIFAMP_IN2
VCOM2
R77 1K
R78 1K
R86 1K
R87 1K
C151 4700pF
C150 1000pF
R73 2K
C141 2200pF
R75 20K
C147 0.22uF
C156 2200pF
R94 2K
U12
THS4551
PD
IN+
VCOM
IN-
FB-
OUT-
OUT+
FB+
R80 15
R79 10
R83 15
R85 10
C149 0.022uF
TP13
TP14
C152 0.1uF
C153 10uF
R89 120K
R90 10K
U13
ADS127L01
LVDD
CAP1
AINN
AINP
AGND
AVDD
REXT
INTLDO
RESET/PWDN
DVDD
DGND
CAP3
FORMAT
HR
CLK
CS
SCLK
DIN
DOUT
DRDY/FSYNC
DAISYIN
START
REFP
REFN
CAP2
FILTER1
FILTER0
FSMODE
OSR1
OSR0
C139 0.1uF
C140 10uF
C142 0.1uF
C143 10uF
C144 1uF
C145 1uF
R74 100K
C146 1uF
R76 10
C148 10pF
C154 5pF
R81 0
R82 0
R84 0
R325 0
SPI2_CS
SPI2_CLK
SPI2_MOSI
SPI2_MISO
ADC_CLK2
DRDY2
START2
INT2
HR_MODE2
C155 0.1uF
C157 10uF
C158 0.1uF
R91 100K
R92 100K
R93 100K
OSR02
OSR12
REFP2
C159 0.01uF
R100 100K
Y2
4.096MHz
VDD
OUT
STANDBY
GND
TP15
C160 0.01uF
C162 10uF
C163 1uF
R105 121K
U14
REF6025
VIN
EN
SS
FILT
OUT_S
OUT_F
GND_F
GND_S
C161 22uF
R104 0.047
R103 0
TP16
L24
L25
Bead
Size B
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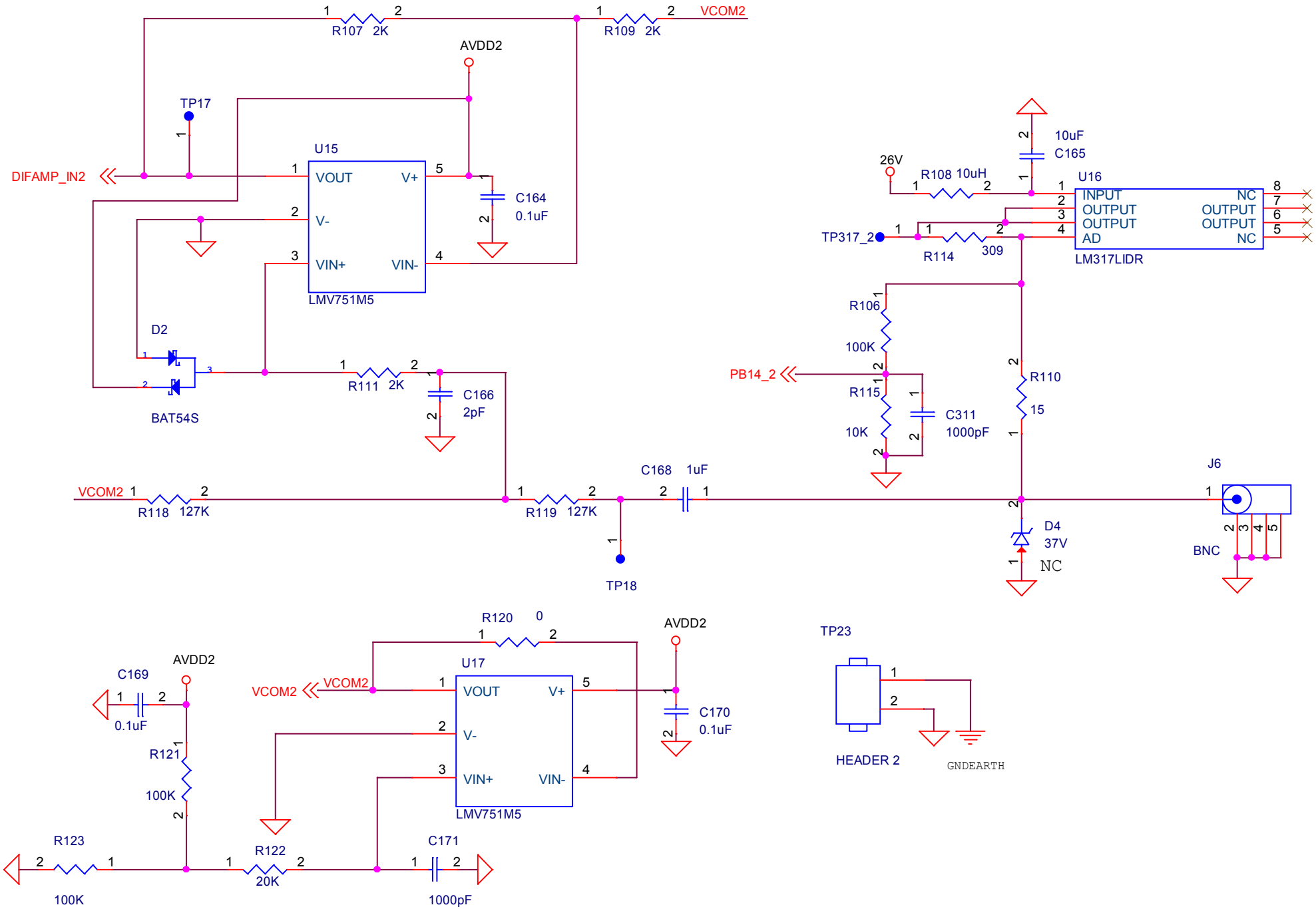

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A	DAQ22.SCH	RD4
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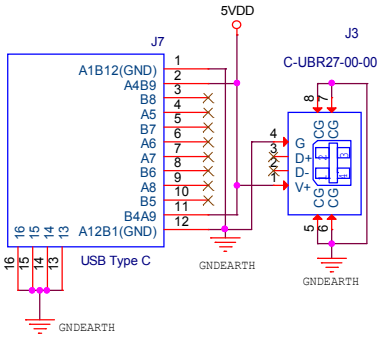
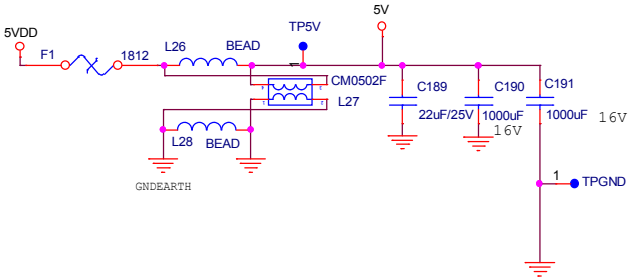
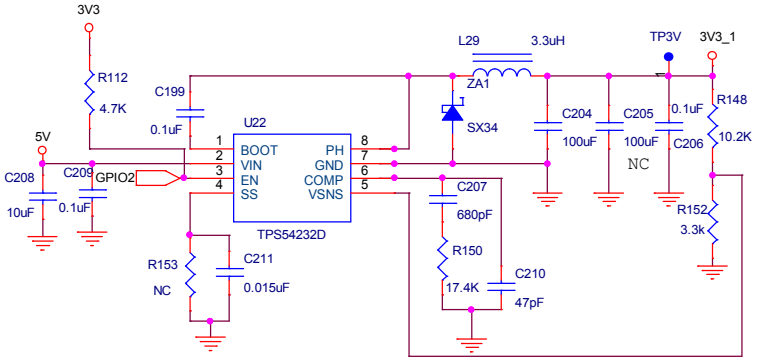
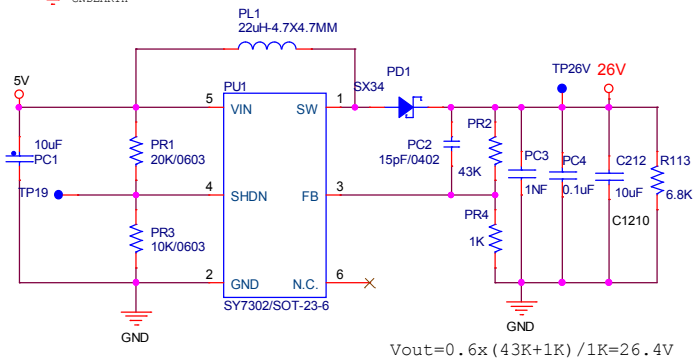
5V DC ADAPTER

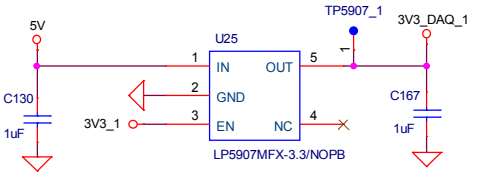


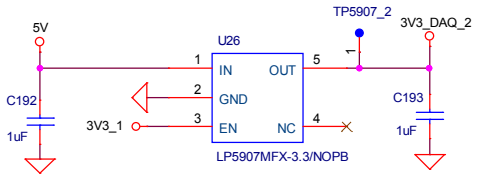


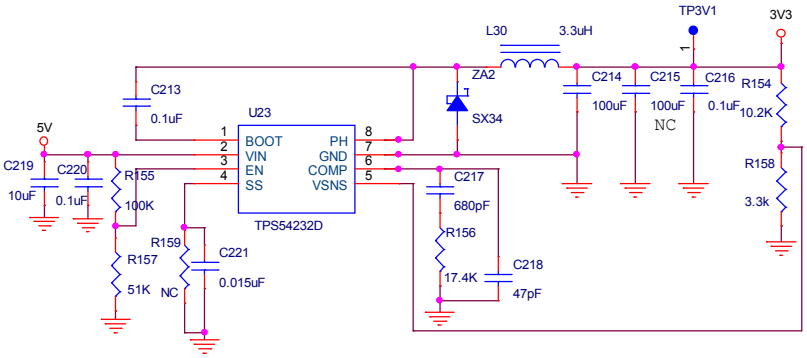




Vout=0.6x(43K+1K)/1K=26.4V







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B	POWER-RESET.SCH	RD4
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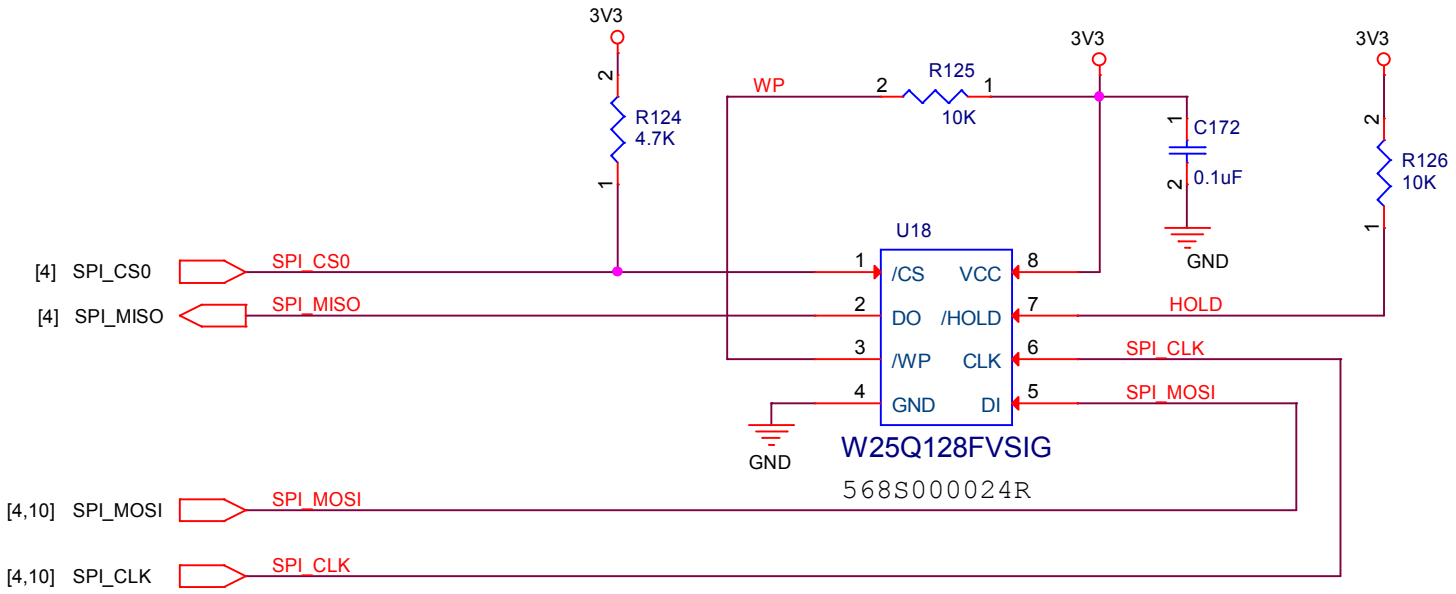

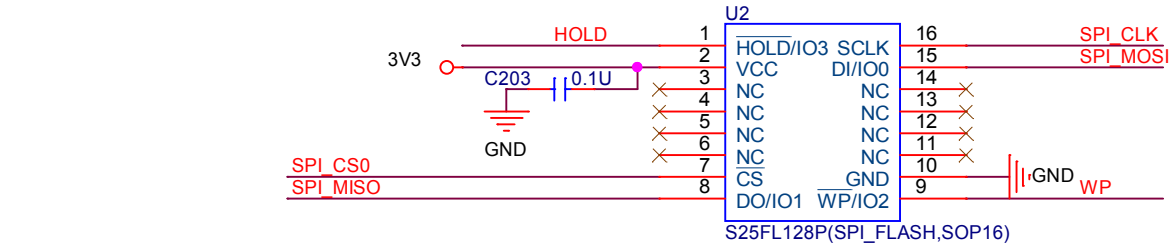

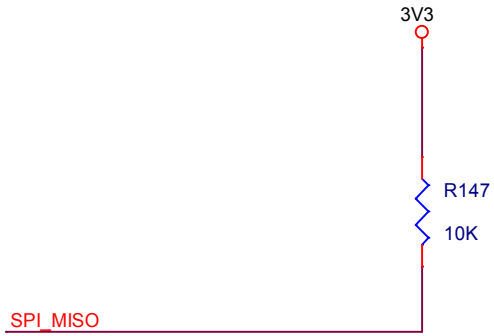

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A	SPI Flash.SCH	RD4
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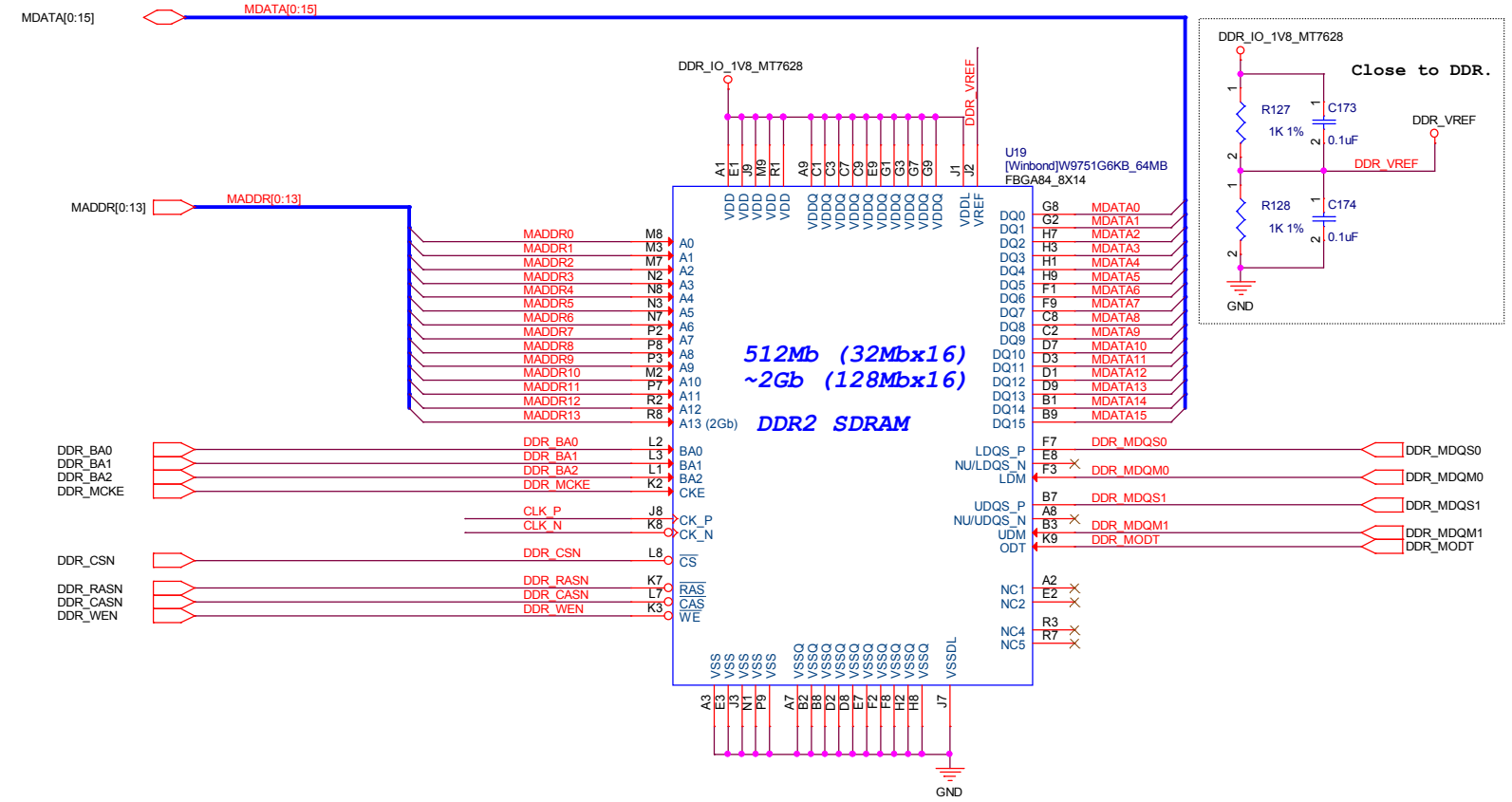
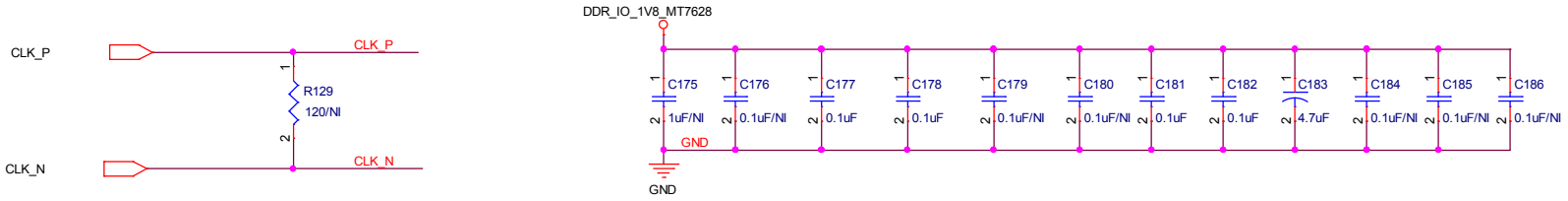


1. 1.8V for DDR2 (Default)
2. 2.5V for DDR1



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B	22-DDR2-CFG.SCH	RD4
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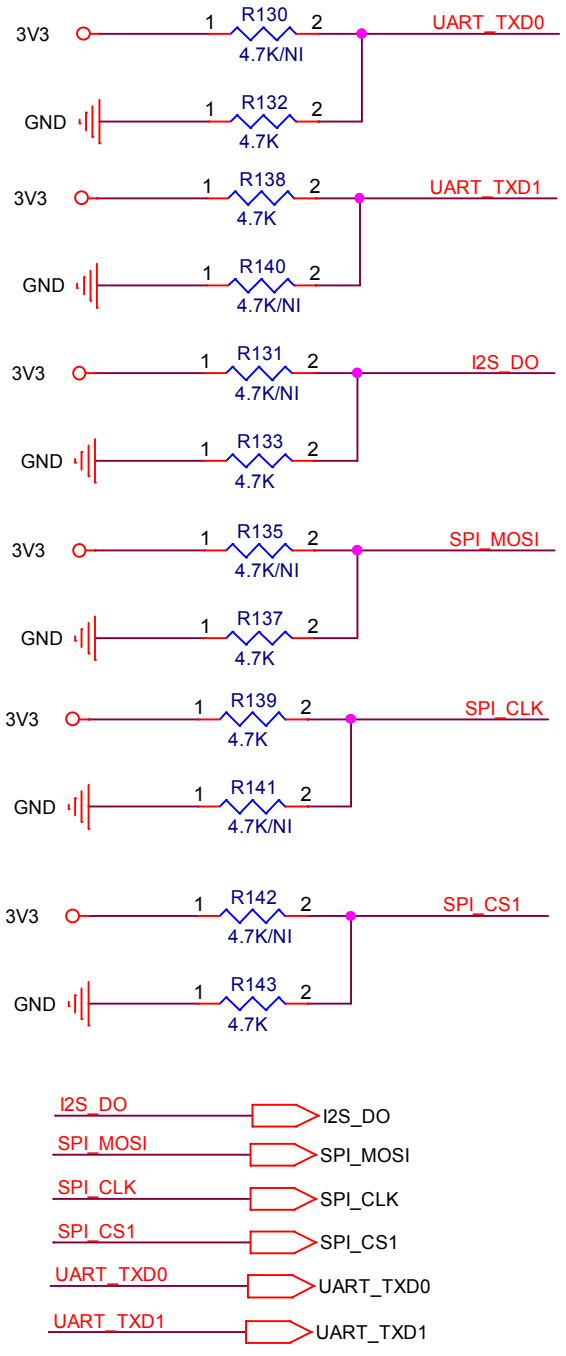

Bootstrapping Pins Description

Pin Name	Boot Strapping Signal Name	Description
UART_TXD1	DBG_JTAG_MODE	0: JTAG_MODE 1: EPHY_LED (default)
PERST_N	XTAL_FREQ_SEL	0: 25 MHz DIP 1: 40 MHz SMD
I2S_SDO	DRAM_TYPE	1: DDR1 0: DDR2 [note] This pin is valid for MT7628AN only. It needs to be pull-low for 7628KN which only supports DDR1.
{SPI_MOSI SPI_CLK, SPI_CS1}	CHIP_MODE[2:0]	A vector to set chip function/test/debug modes. 000: Boot from PLL (boot from SPI 3-Byte Addr) 001: Boot from PLL (boot from SPI 4-Byte Addr) 010: Boot from XTAL (boot from SPI 3-Byte Addr) 011: Boot from XTAL (boot from SPI 4-Byte Addr)
PAD_TXD0	EXT_BGCK	1: Test Mode 0: Normal (default)

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A	23-Config.SCH	RD4
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