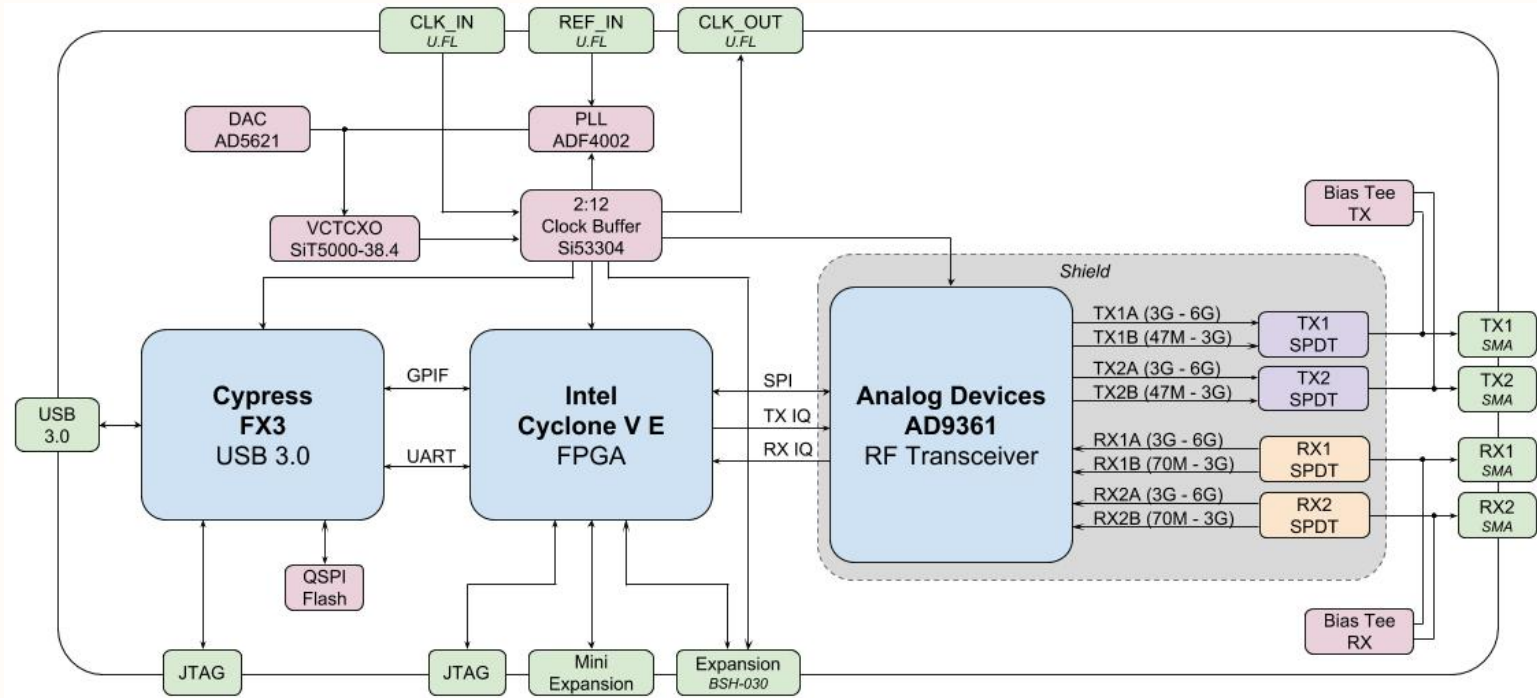
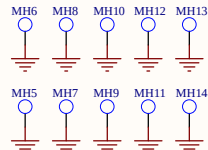
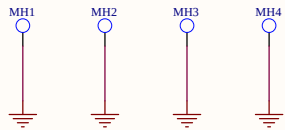


bladerRF micro - USB 3.0 Software Defined Radio



FID1 FID2 FID3
FID4 FID5 FID6

WARNING: MOUNTING - 88 will select
the antenna pin
to be placed in each corner of board

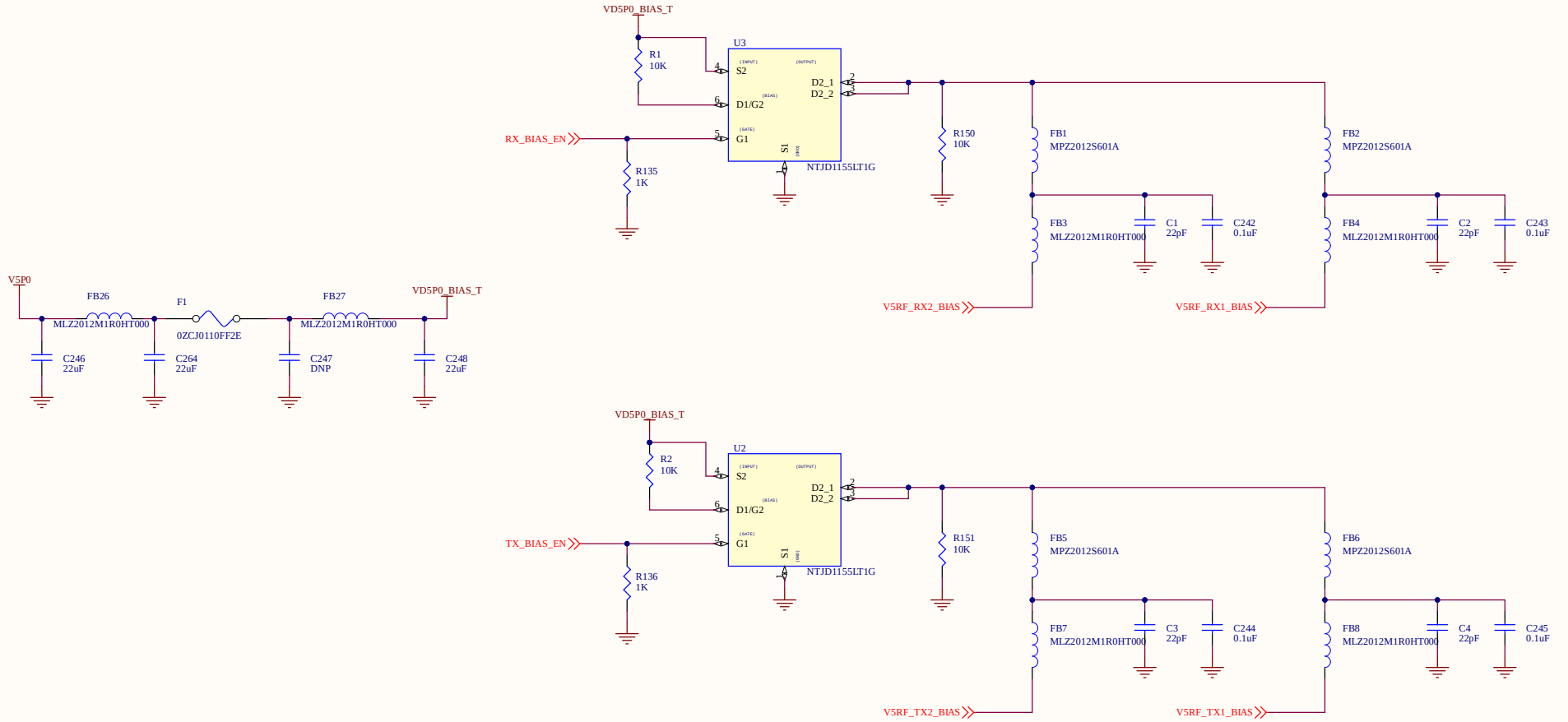


Option: these connectors throughout the design.
Resistors will be 0Ω



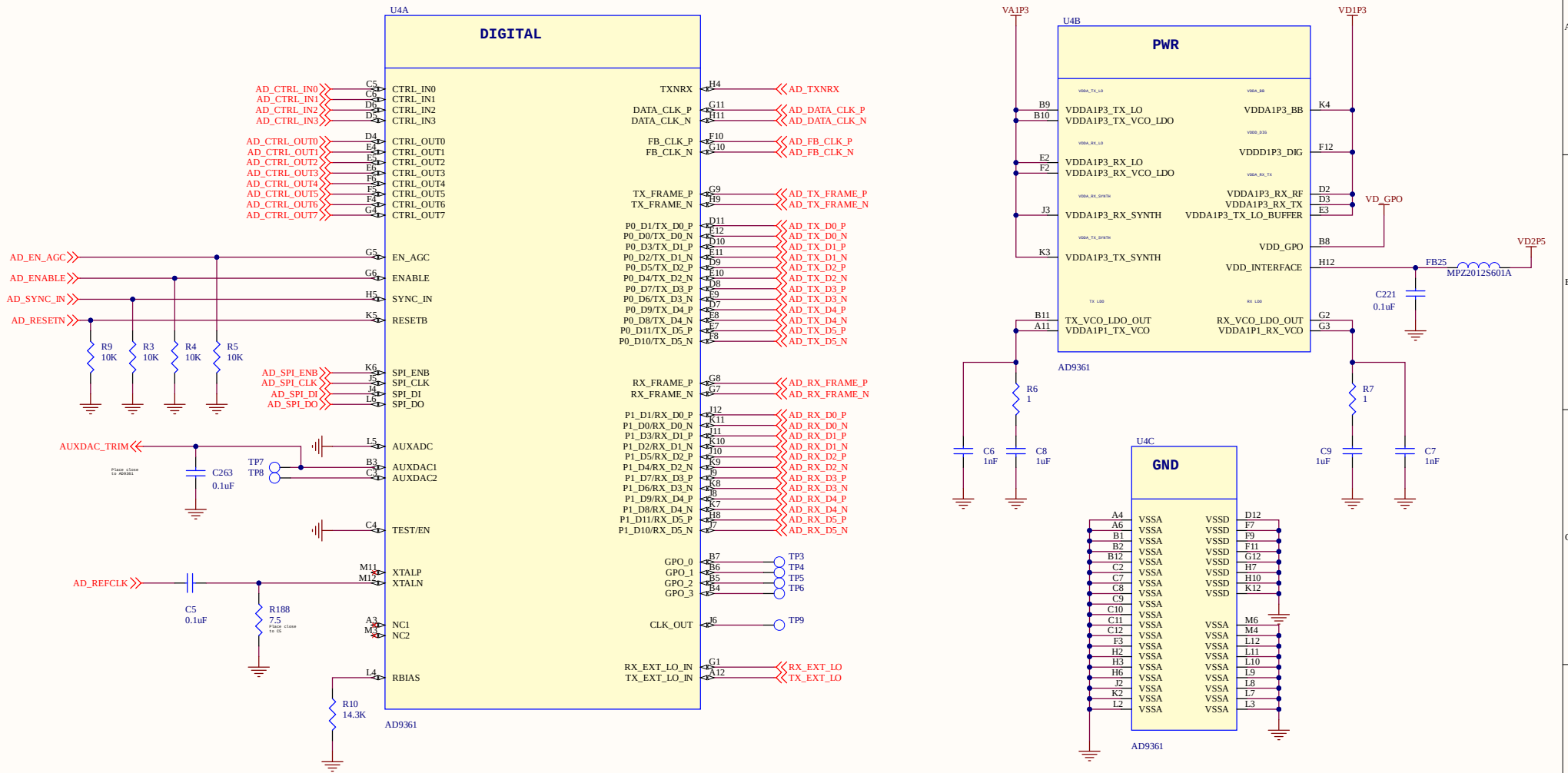
Nuand	
A	REV 1.6

RF SMA BIAS TEE



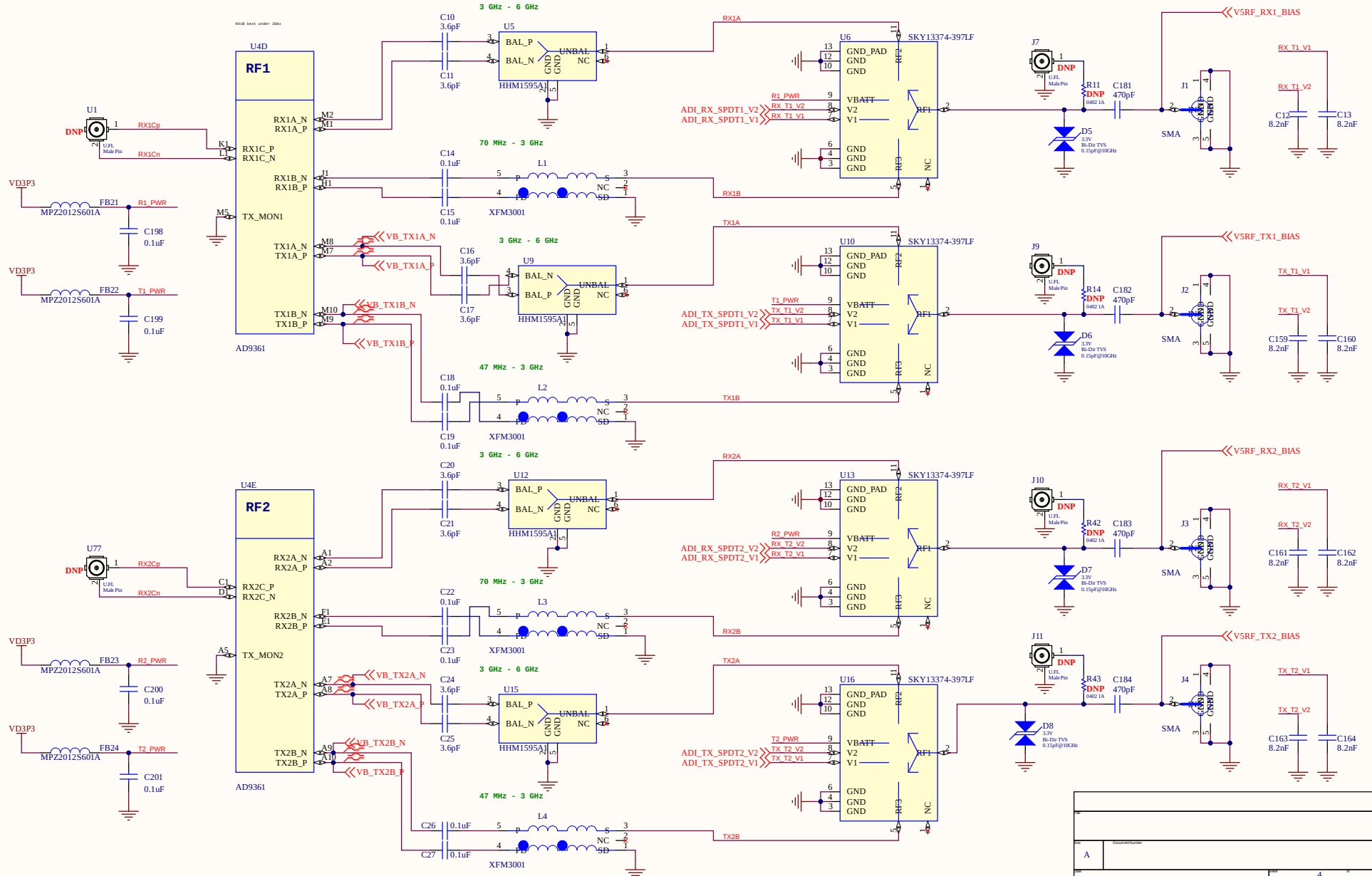
Nuand	
A	17

AD9361 - Digital

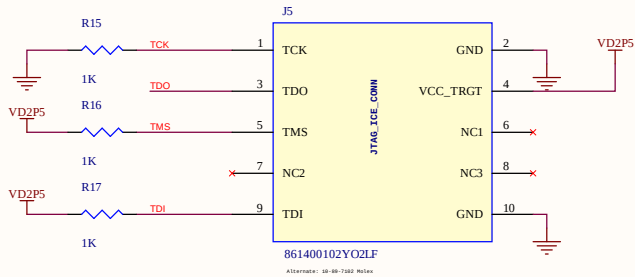
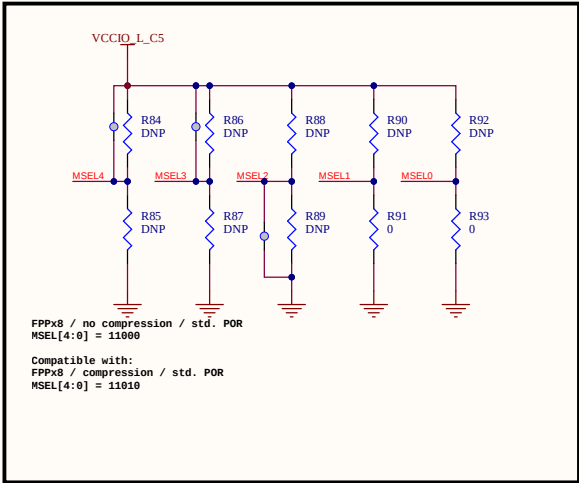
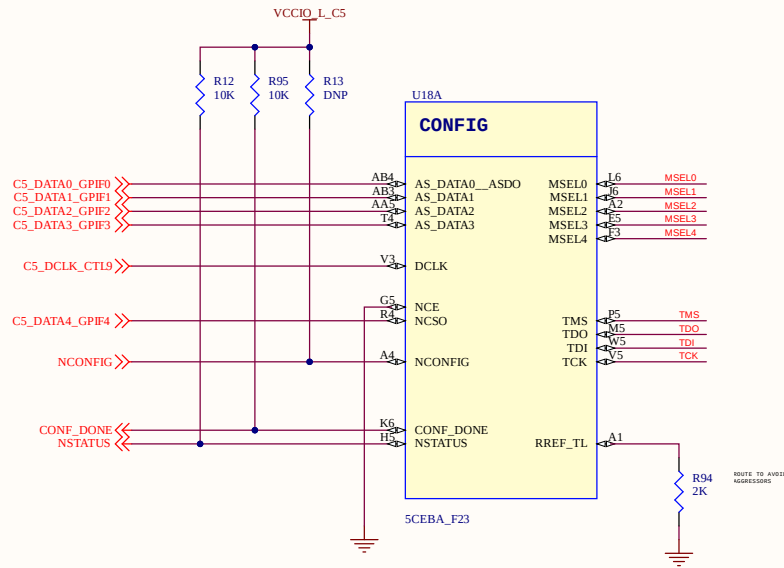


100	Nuand		
100	Document Number		100
A			
		3	17

AD9361 - 2x2 MIMO RF (47MHz - 6GHz)

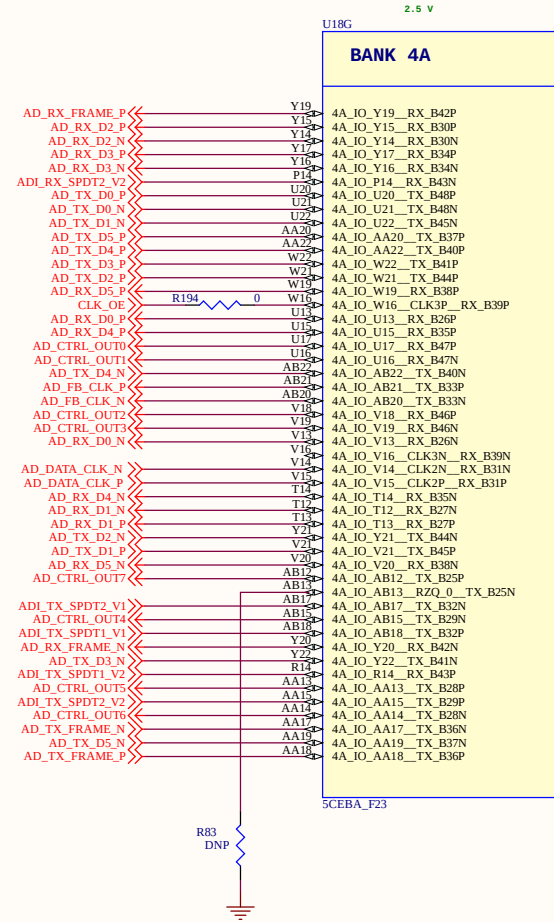
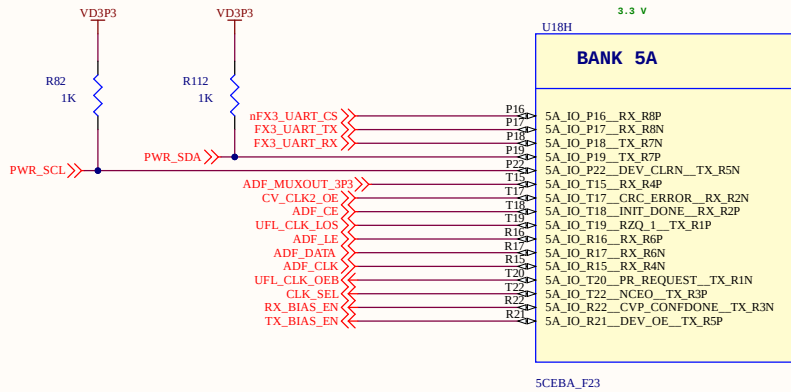


CYCLONE V - CONFIGURATION



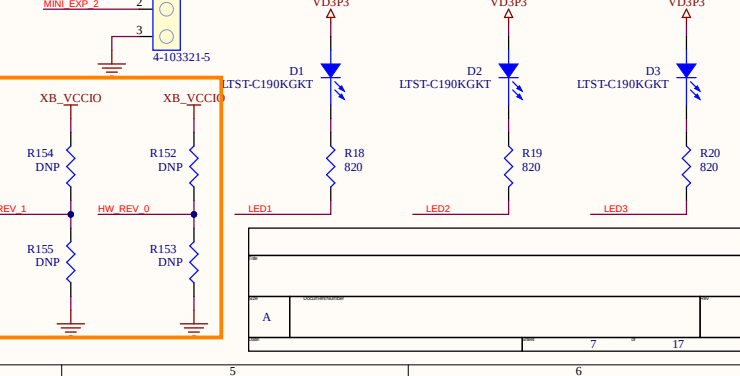
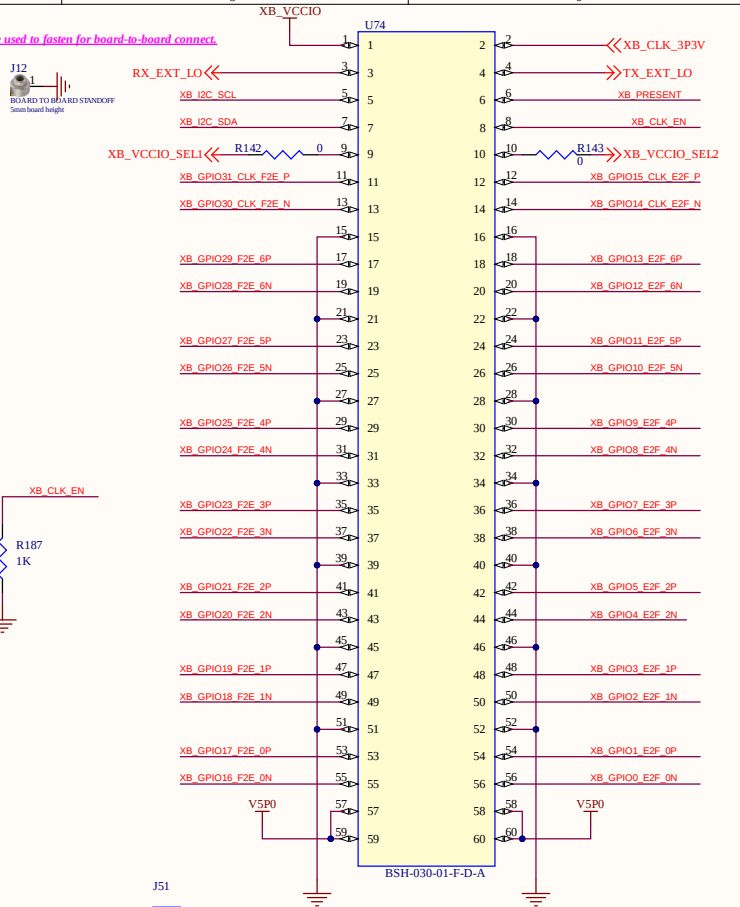
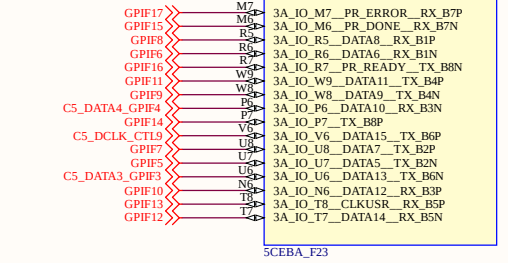
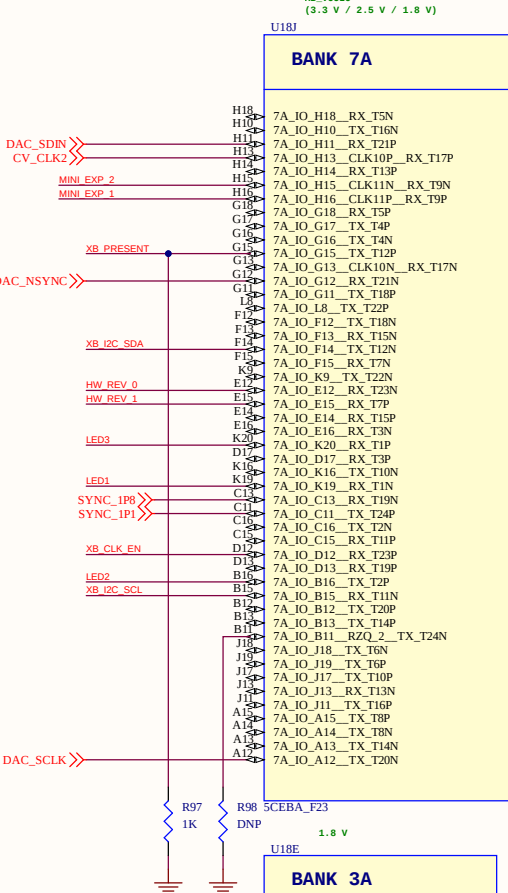
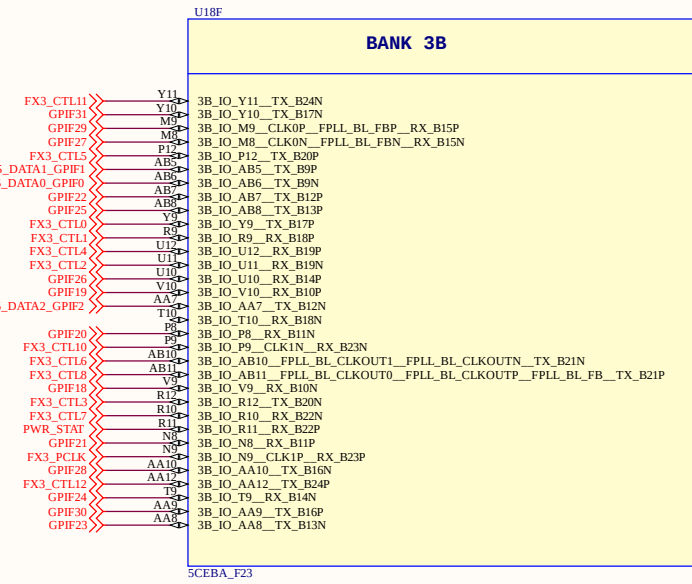
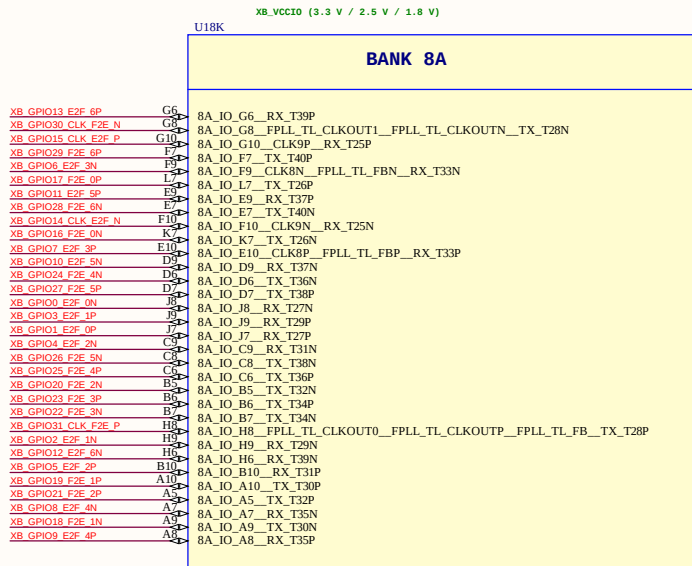
Nuand	
A	

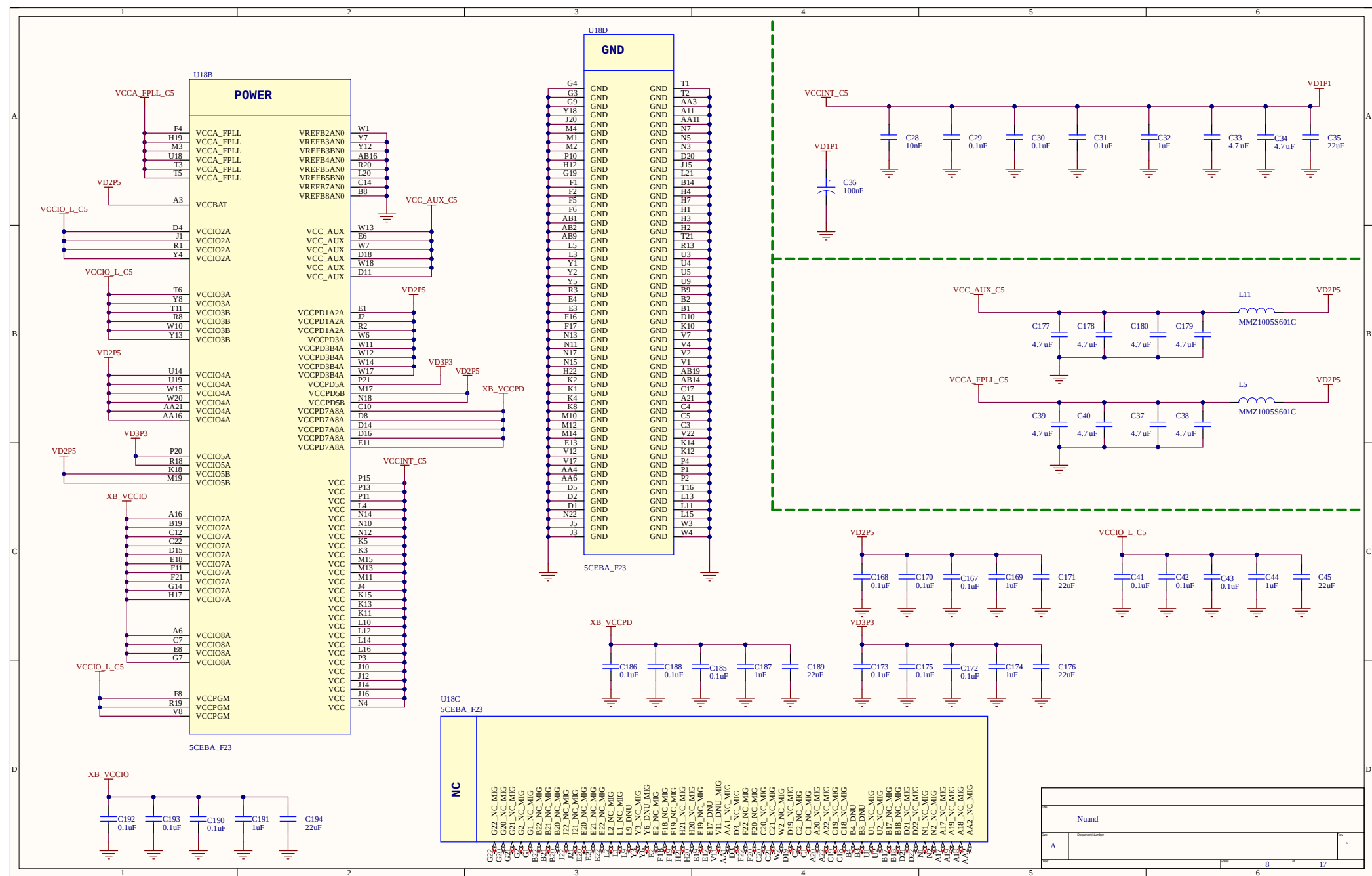
CYCLONE V - BANKS 4A / 5A / 5B

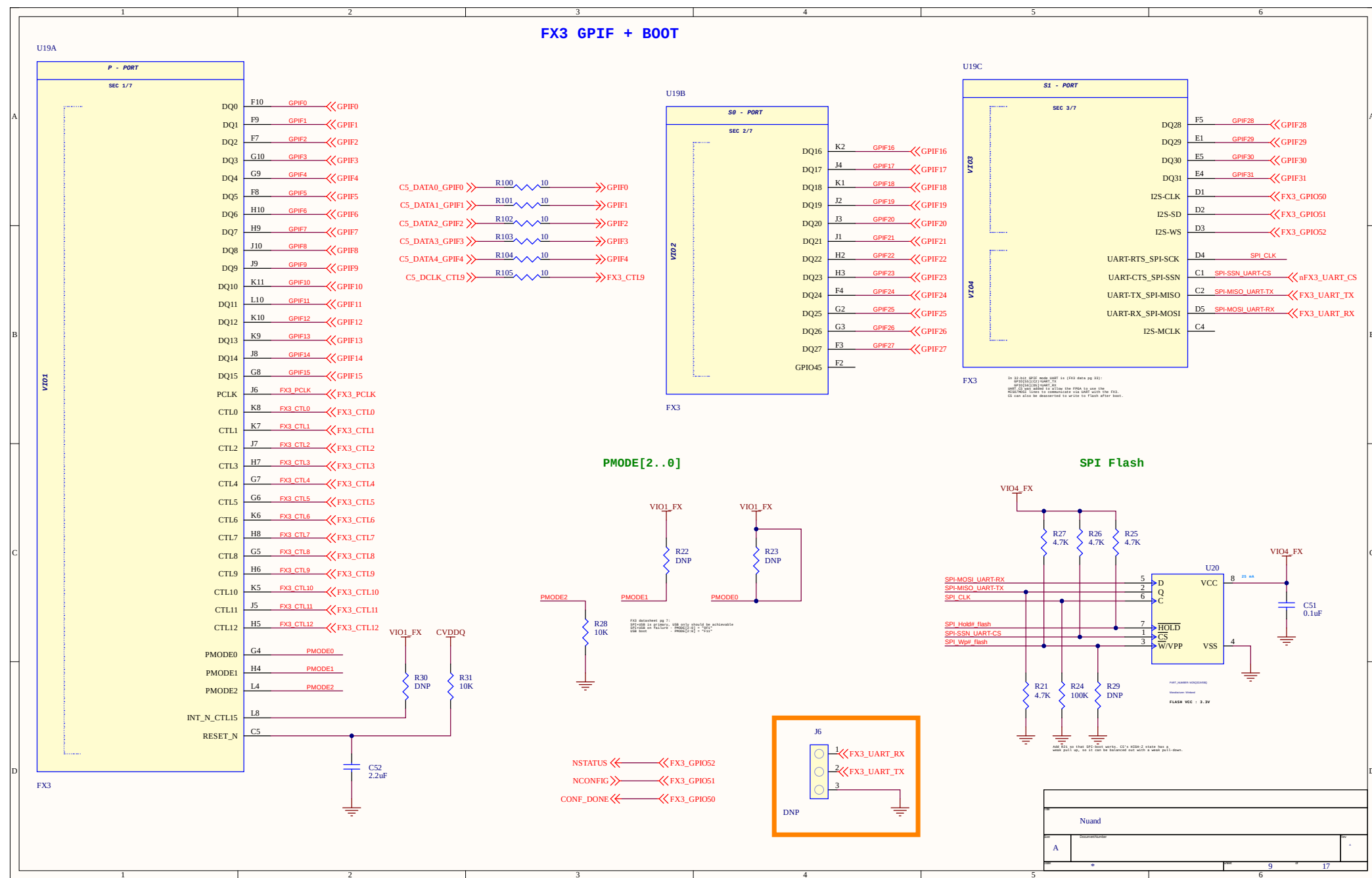


Nuand	
A	
6 17	

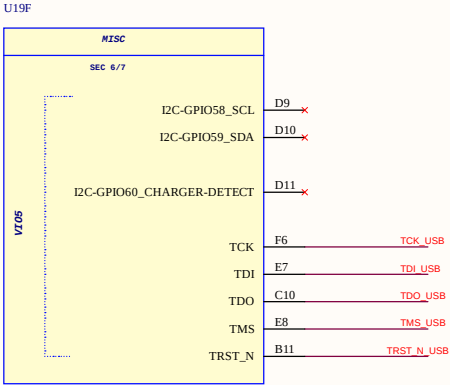
CYCLONE V - BANKS 3A / 3B / 7A / 8A / EXPANSION



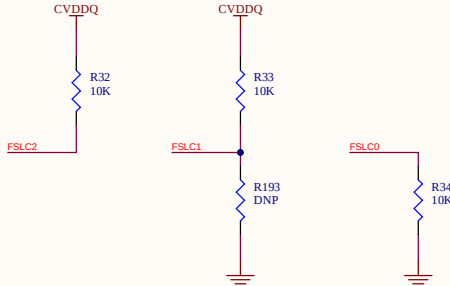
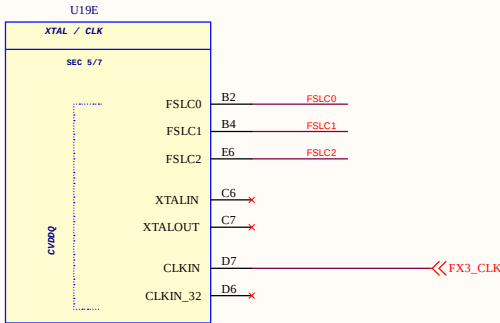
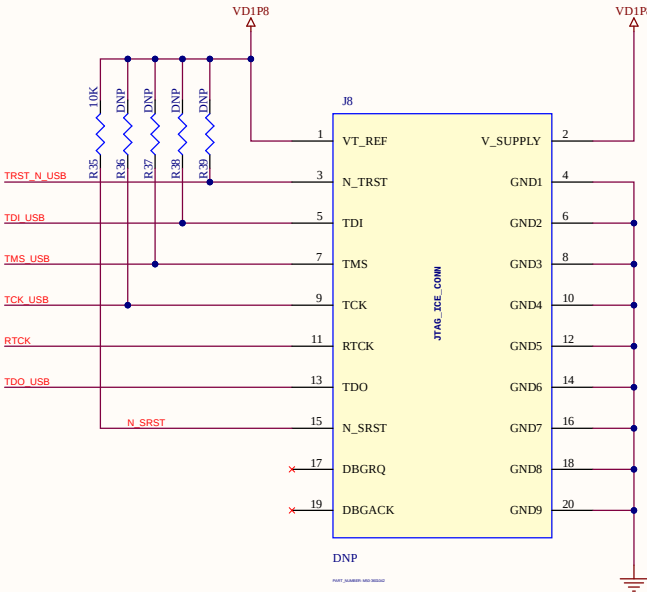




FX3 DEBUG + CLOCK SEL

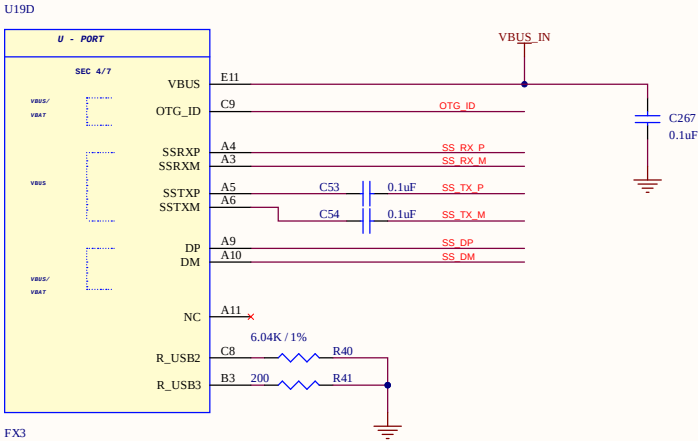


FXE

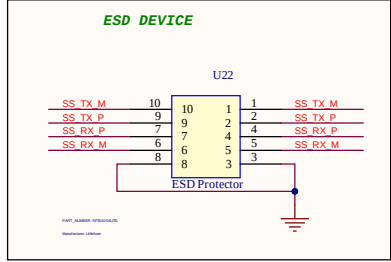
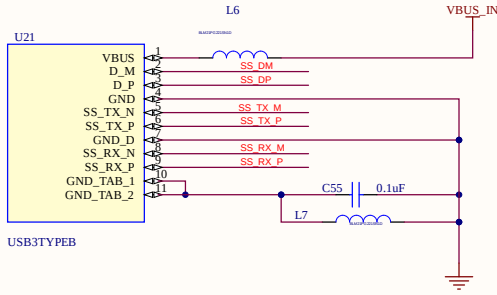


Nuan

USB CONNECTIONS

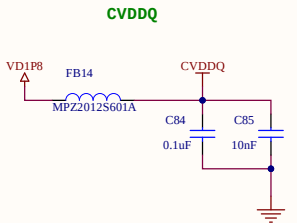
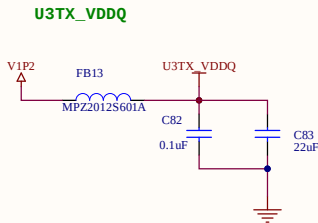
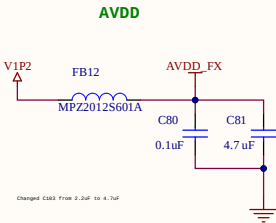
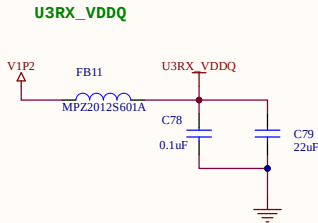
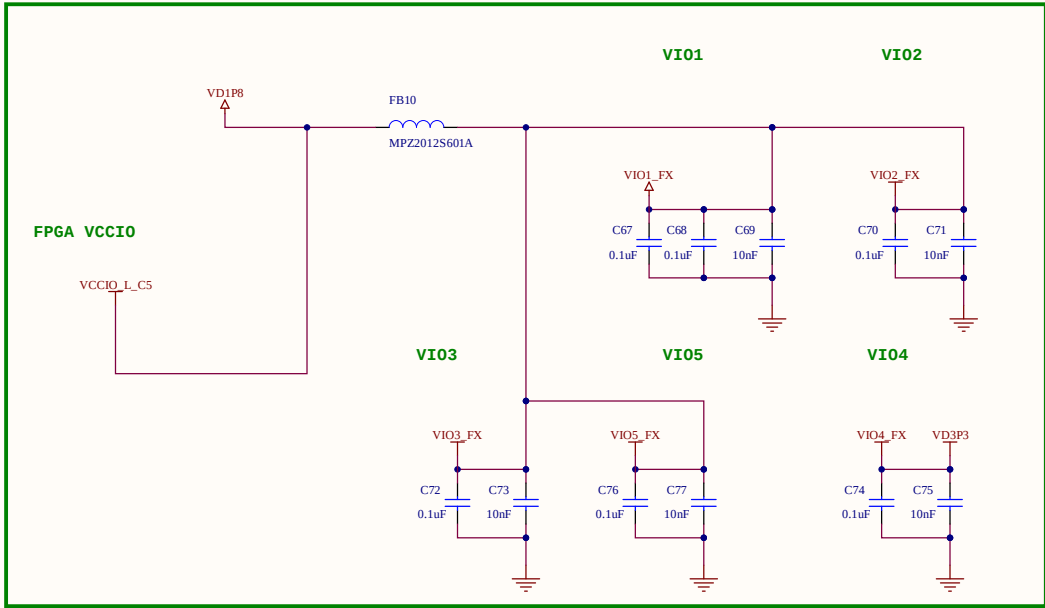
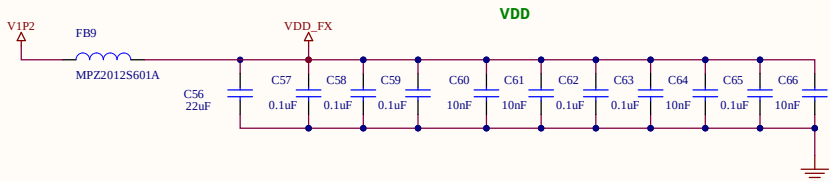
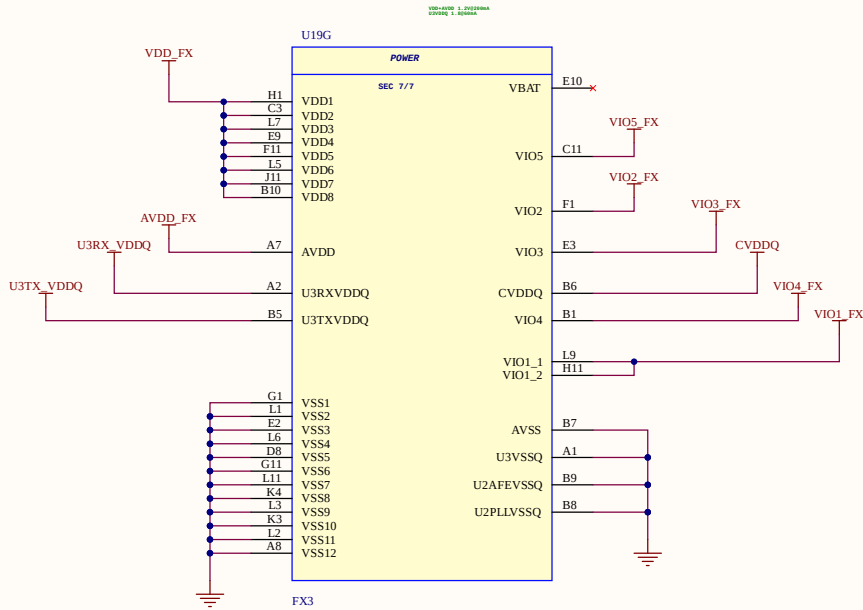


USB3.0 TYPE B



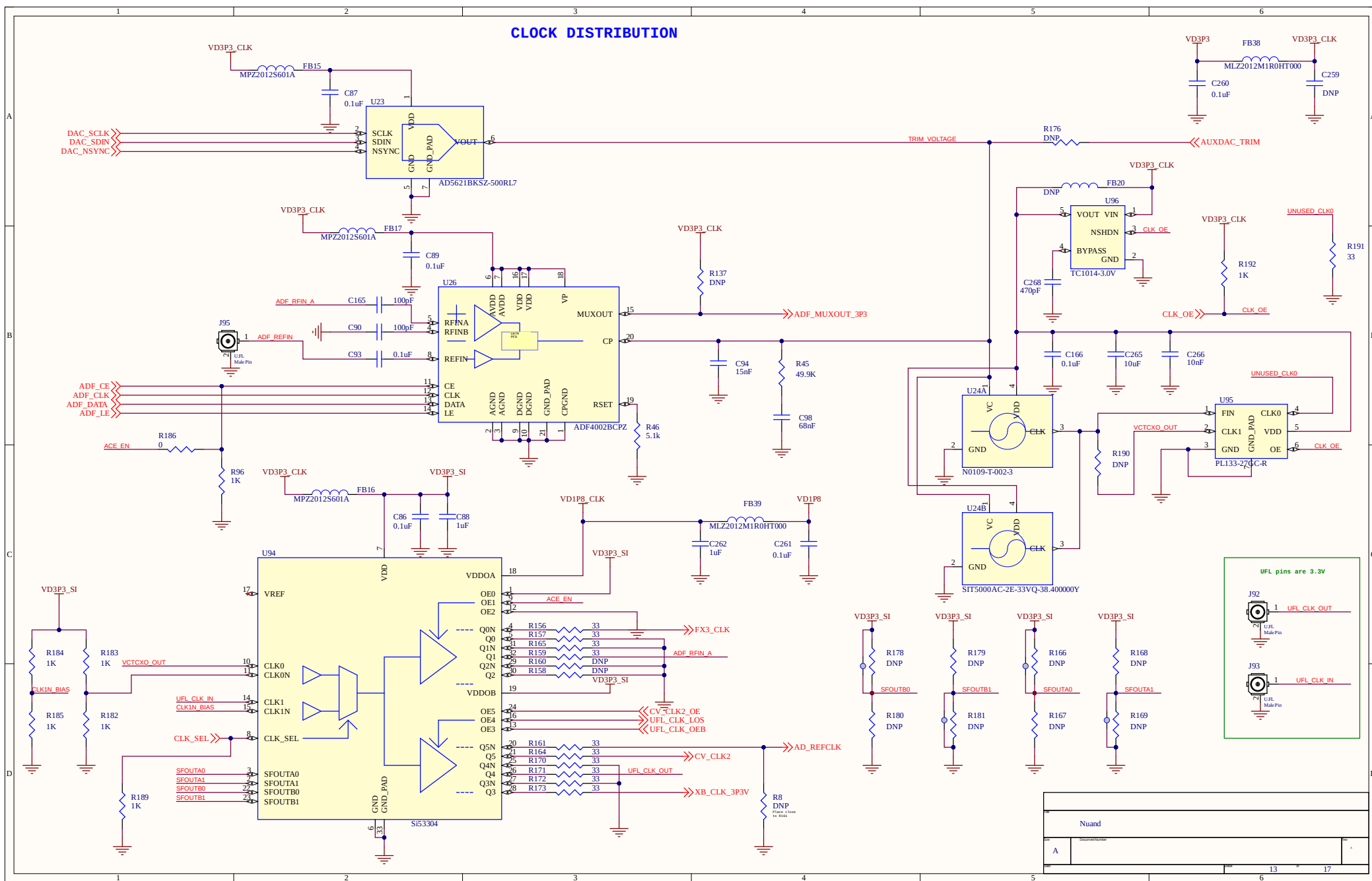
Nuand	
A	11 17

FX3 POWER



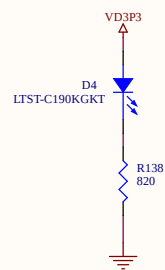
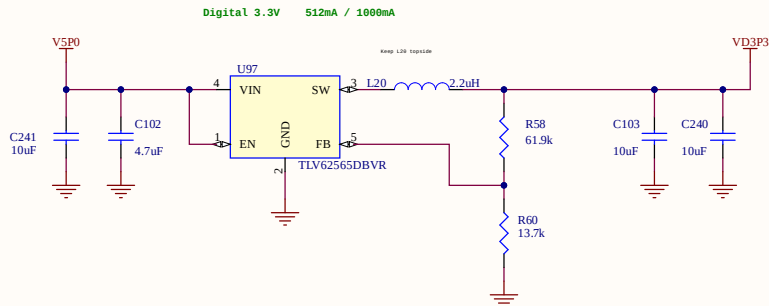
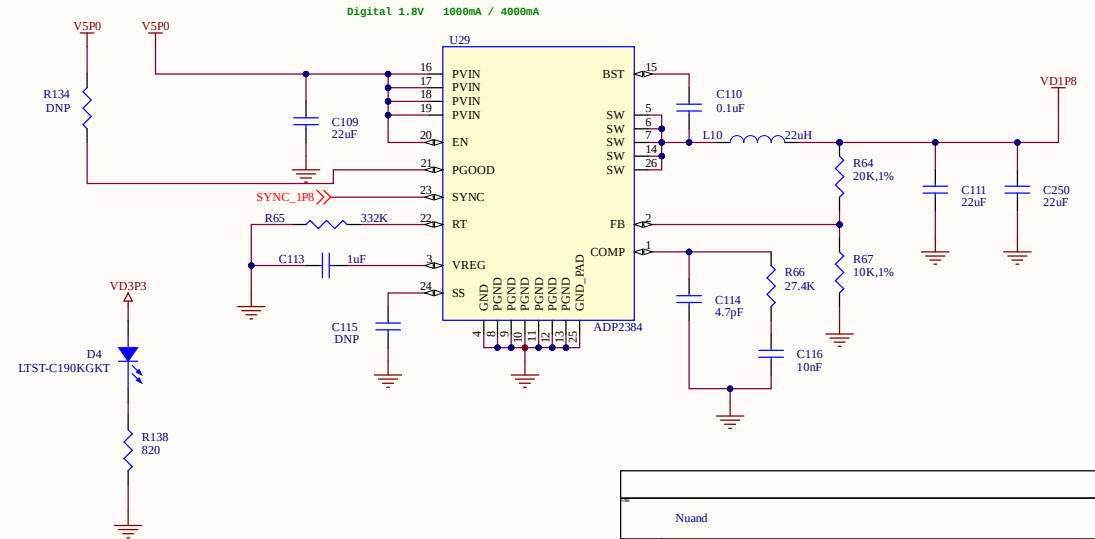
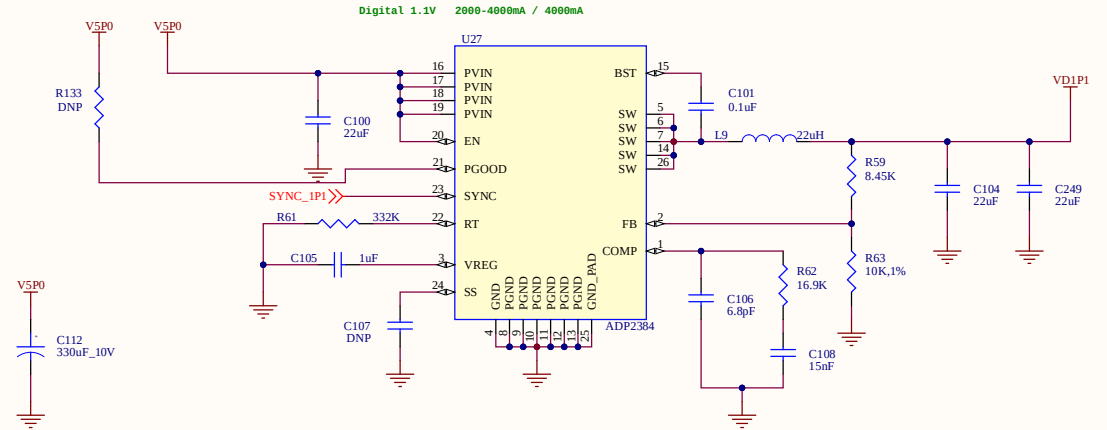
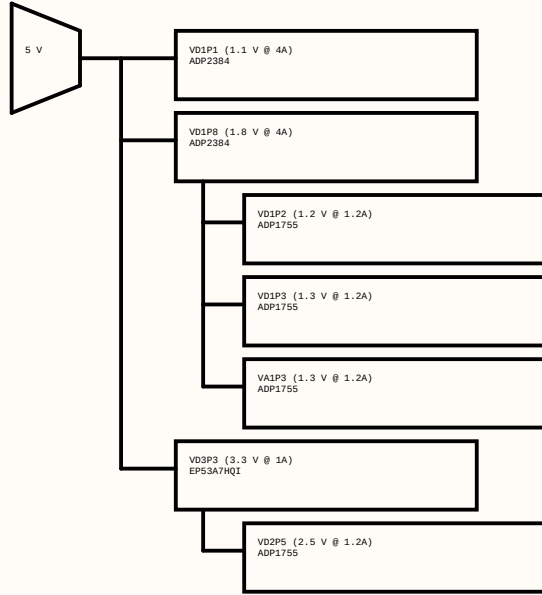
U3RX_VDDQ = V1P2
U3TX_VDDQ = V1P2
AVDD = V1P2
CVDDQ = V1P8
VDD = V1P8
VIO1 = V1P8
VIO2 = V1P8
VIO3 = V1P8
VIO4 = V3P3
VIO5 = V1P8

Nuand	
A	



POWER - 1.1V/1.8V/3.3V

USB VBUS
DC BARREL



Nuand	
A	

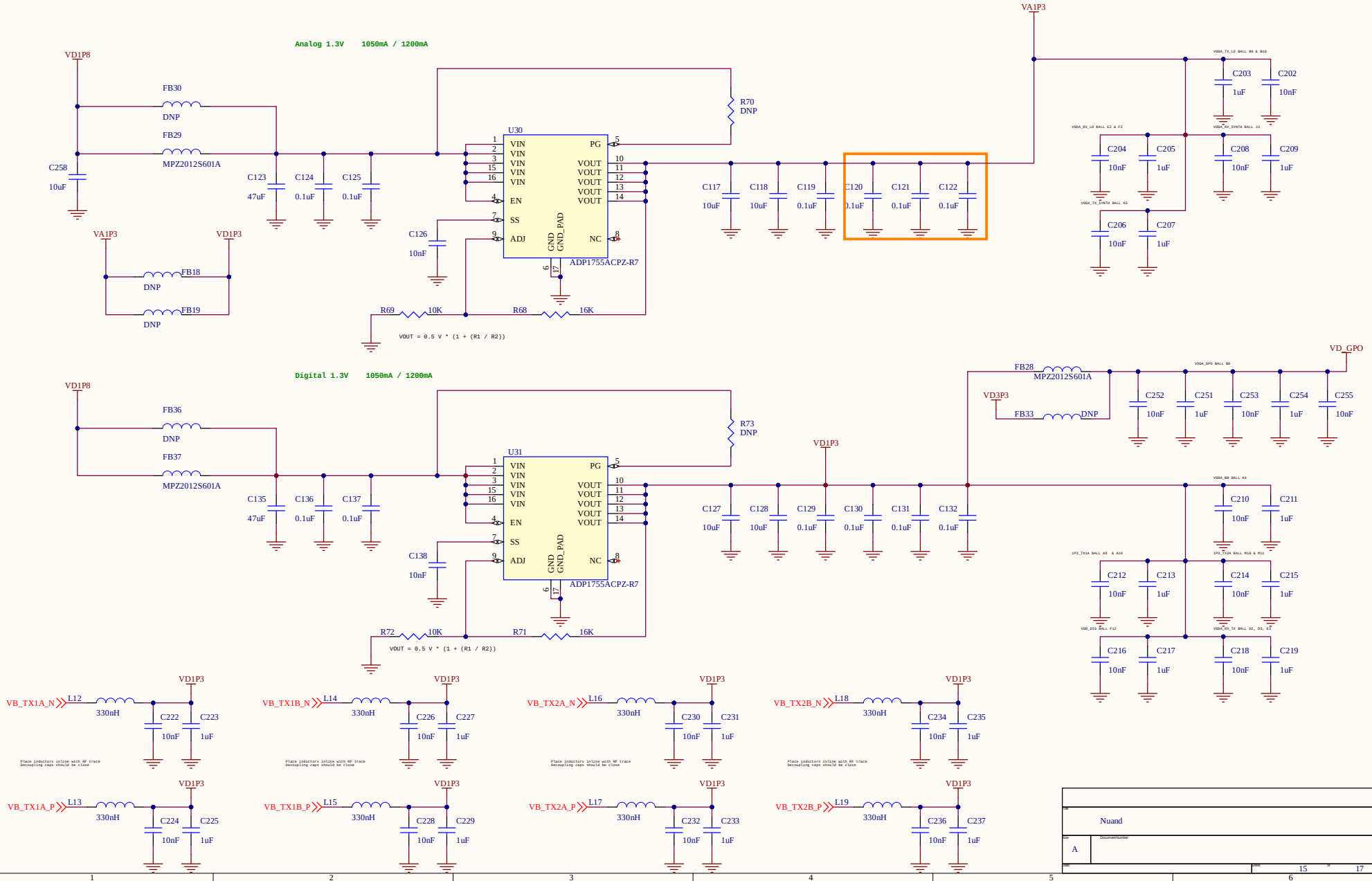
POWER - 1.3V

Analog 1.3V 1050mA / 1200mA

Digital 1.3V 1050mA / 1200mA

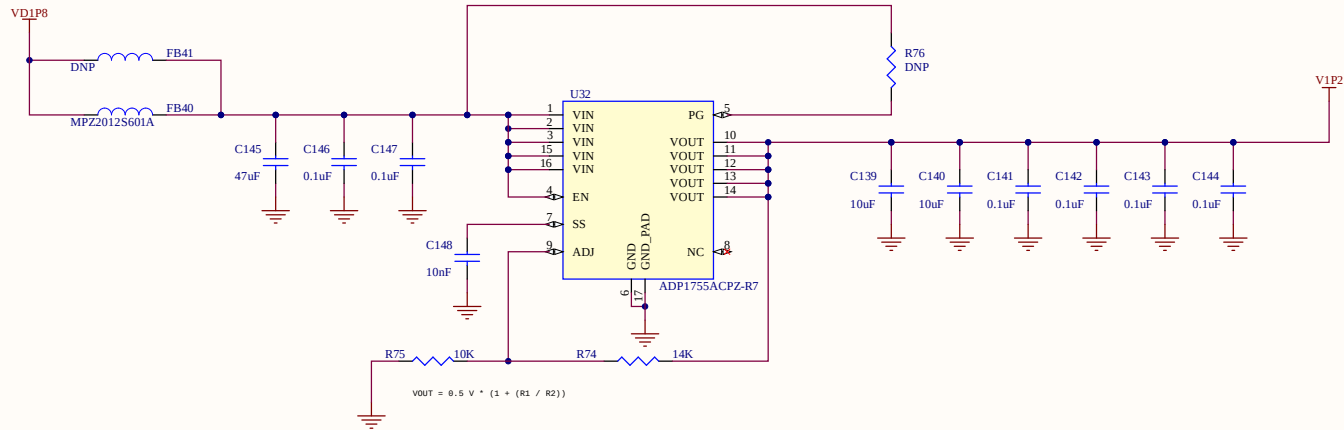
$$V_{OUT} = 0.5 V \cdot (1 + (R1 / R2))$$

$$V_{OUT} = 0.5 V \cdot (1 + (R1 / R2))$$

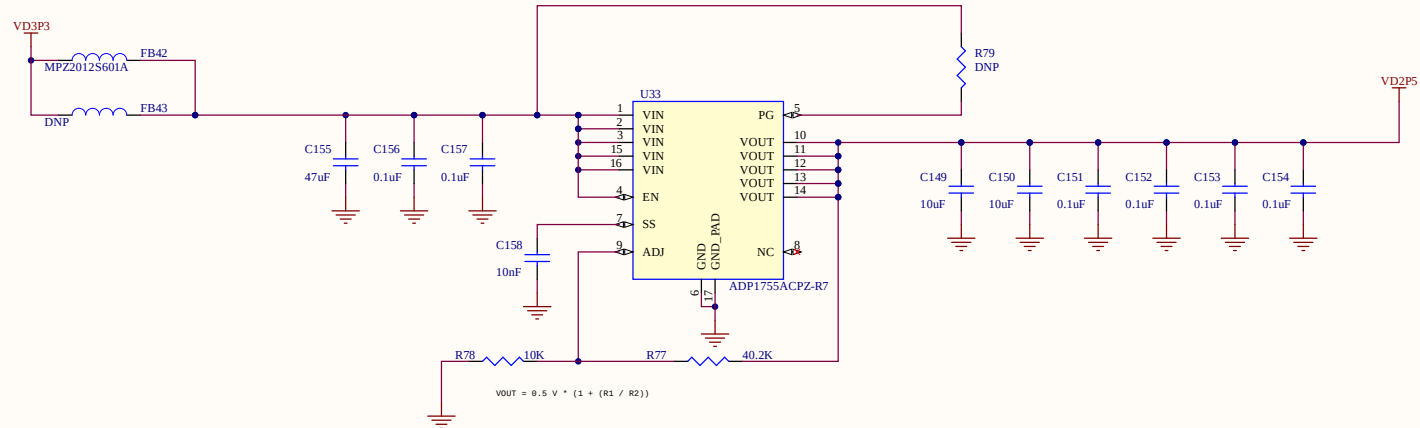


POWER - 1.2V/2.5V

Digital 1.2V 197mA / 1200mA



Digital 2.5V 307mA / 1200mA



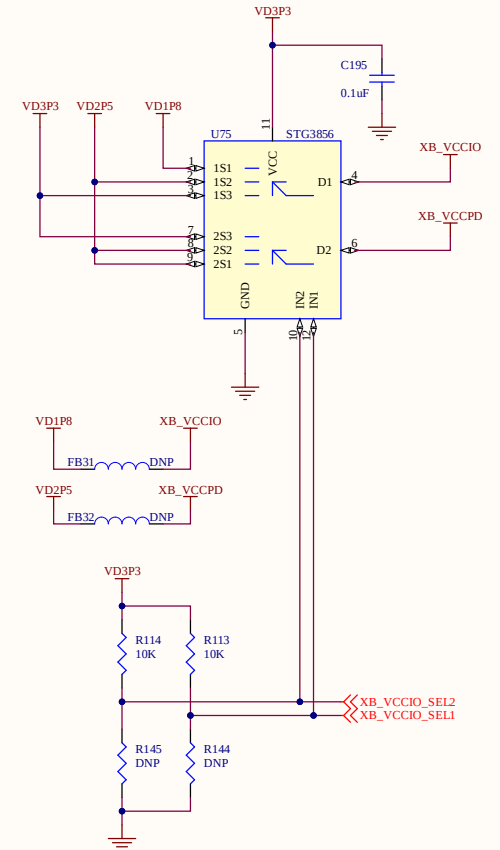
Nuand

A

16

17

XB VCCIO SELECTION



D1	D0	VIN2 > VIN1	STAT	OUT
<0.7V	<0.7V	X	Z	IN2
>2V	<0.7V	X	0	IN1

If DC barrel jack (VDC) is floating or does not provide at least 4 V, power mux will select USB VBUS.

SEL2	SEL1	VCCIO / VCCPD
GND	GND	H1-Z / H1-Z
3.3V	GND	1.8 V / 2.5 V
GND	3.3V	2.5 V / 2.5 V
3.3V	3.3V	3.3 V / 3.3 V (DEFAULT)

Nuand

A