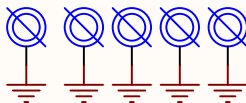
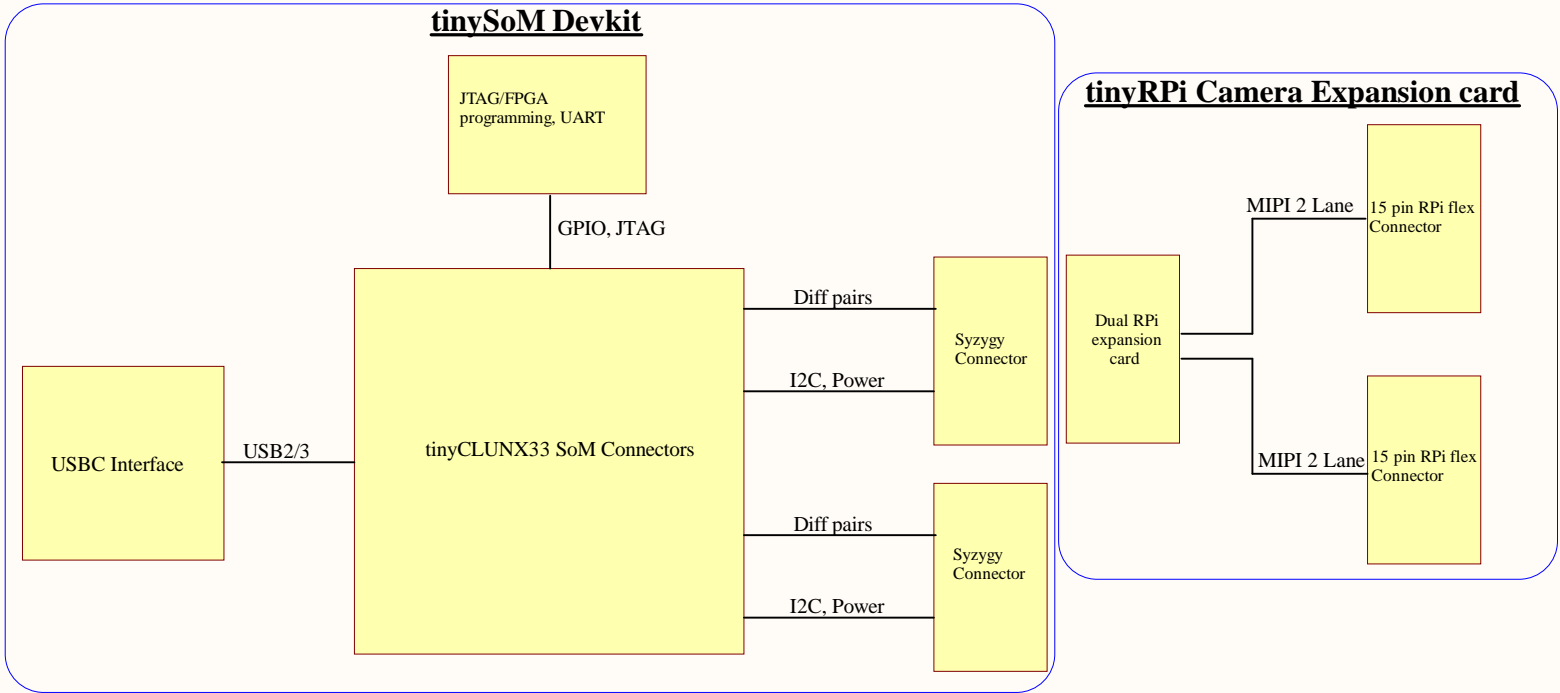


REV	Revision Notes	Designed by	Approved by	Date
1.0	Initial release	TinyVision	*	*
2.0	Rev2	TinyVision	*	*
3.0	Rev3	TinyVision	*	*




PCB
LOGO
WEEE

PCB
LOGO
ESD Susceptible

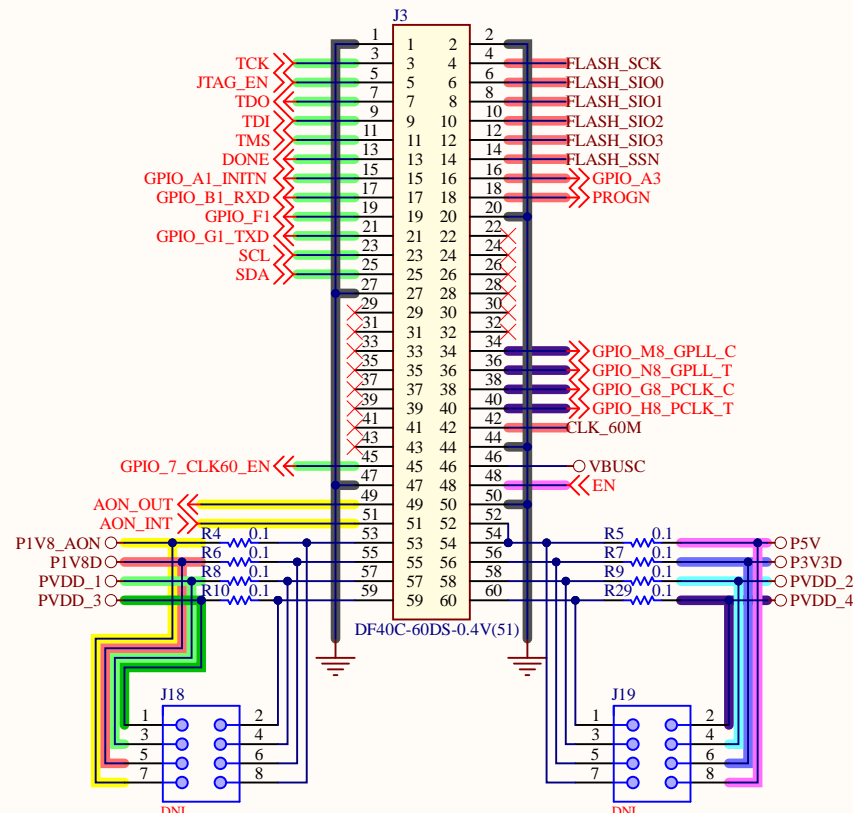
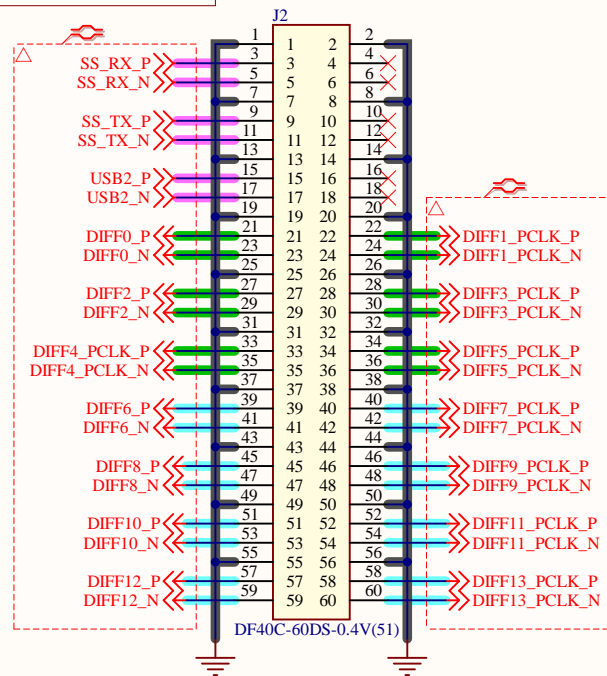


1 FID
1 FID
1 FID

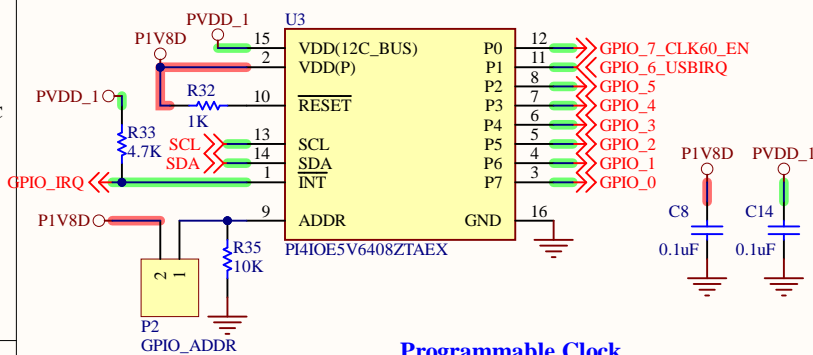
Title <i>tinyNX33U Module BaseBoard</i>				
Size: B	Number: BlockDiagram	Revision: 3.0		
Date: 06-06-2025	Time: 11:39:27	Sheet 1	of 4	
File: Overview.SchDoc				

3.3V IO
USB
1.8V
Bank 1 Voltage (1.2-3.3V)
Bank 2 Voltage (1.2-1.8V)
Bank 3 Voltage (1.2-1.8V)
Ground

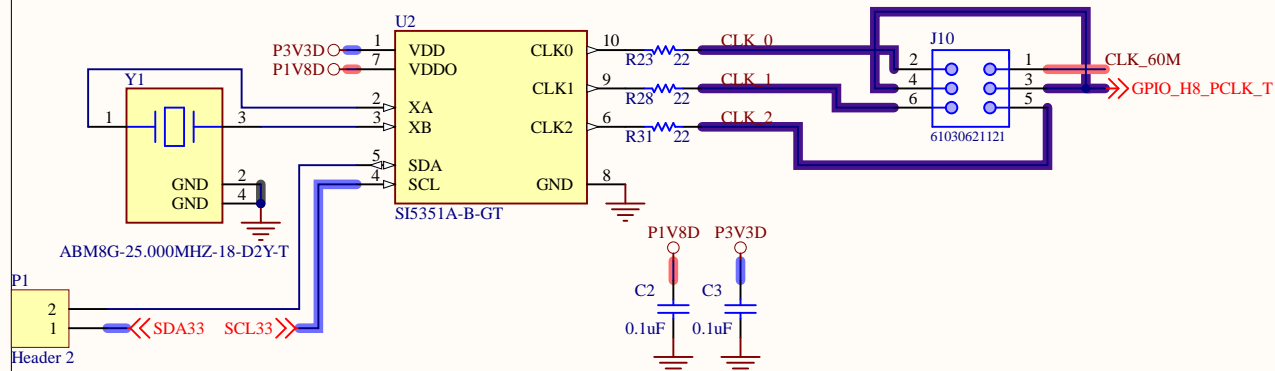
SoM Connectors



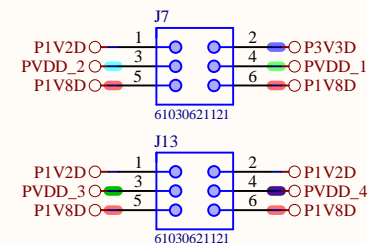
I2C GPIO Expander



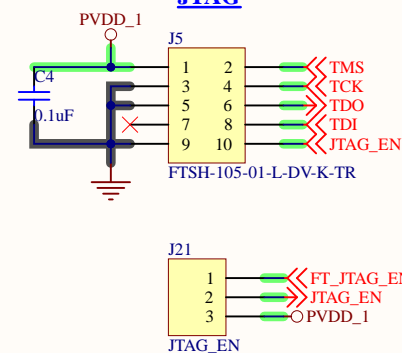
Programmable Clock



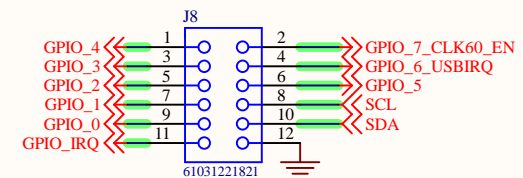
Bank Voltage Selection



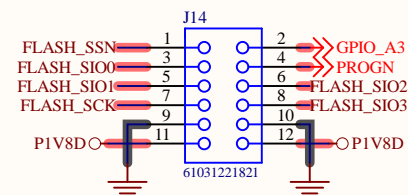
JTAG



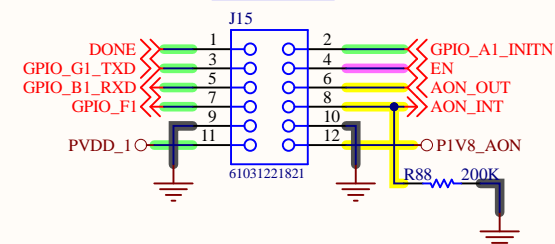
GPIO/I2C



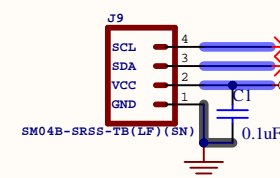
Flash IO



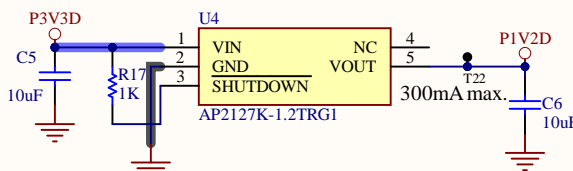
AON/GPIO



QWIIC Connector

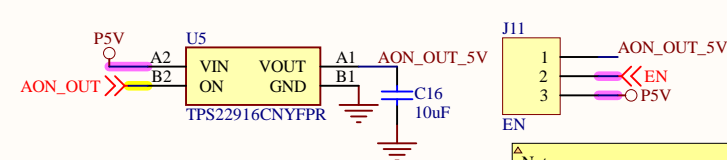


1.2V LDO



Note:
The 1.2V LDO is required as the b
voltage for proper MIPI operation.

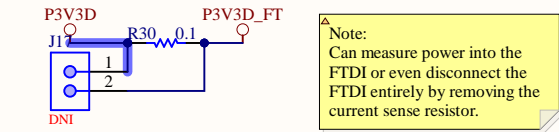
AON Circuit



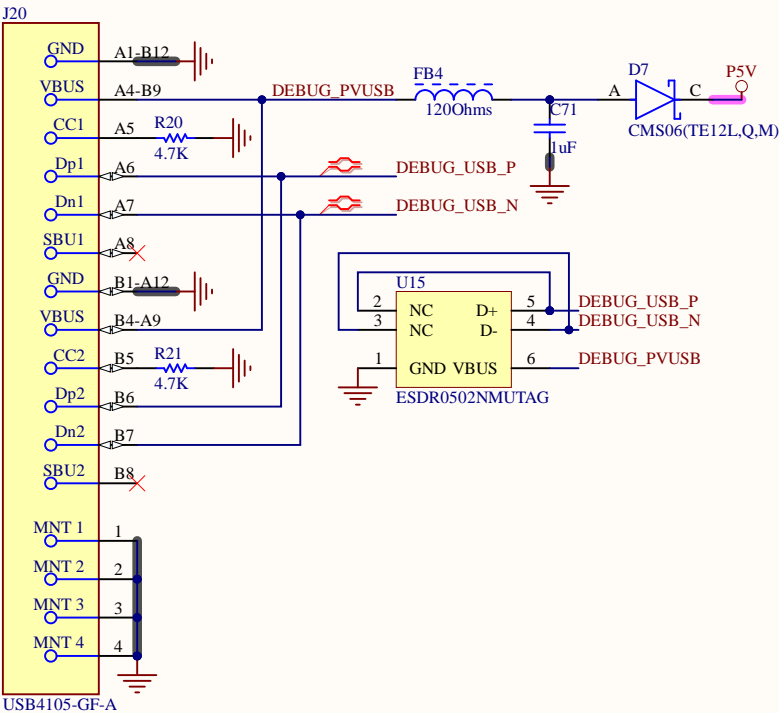
Note:
This switch allows the EN line to go all the way to 5V allowing for more efficient PFM operation of the module switchers. Else, the switchers are limited to PWM (good for EMI but poor low load efficiency).

△ Note:
1-2: Power controlled by block
2-3: Power is always on

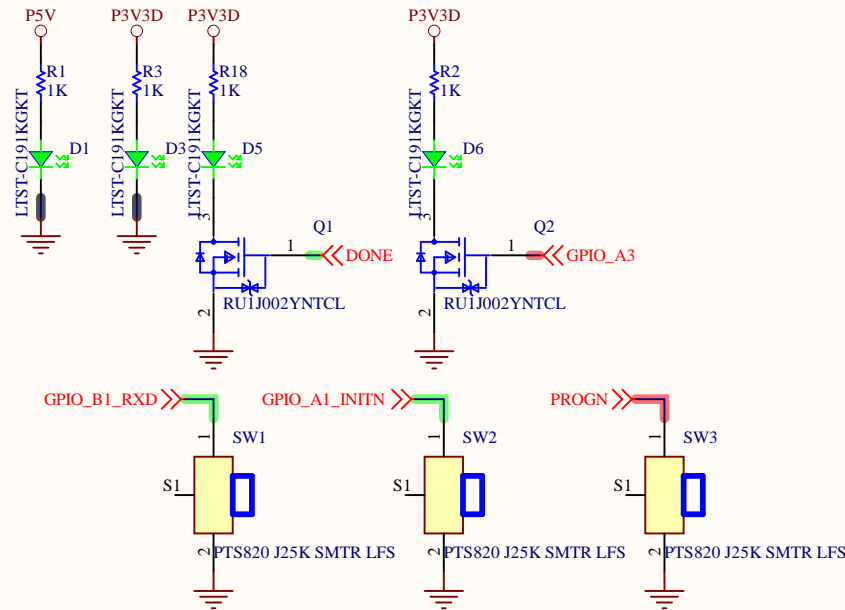
FTDI Power Measurement/Disconnect



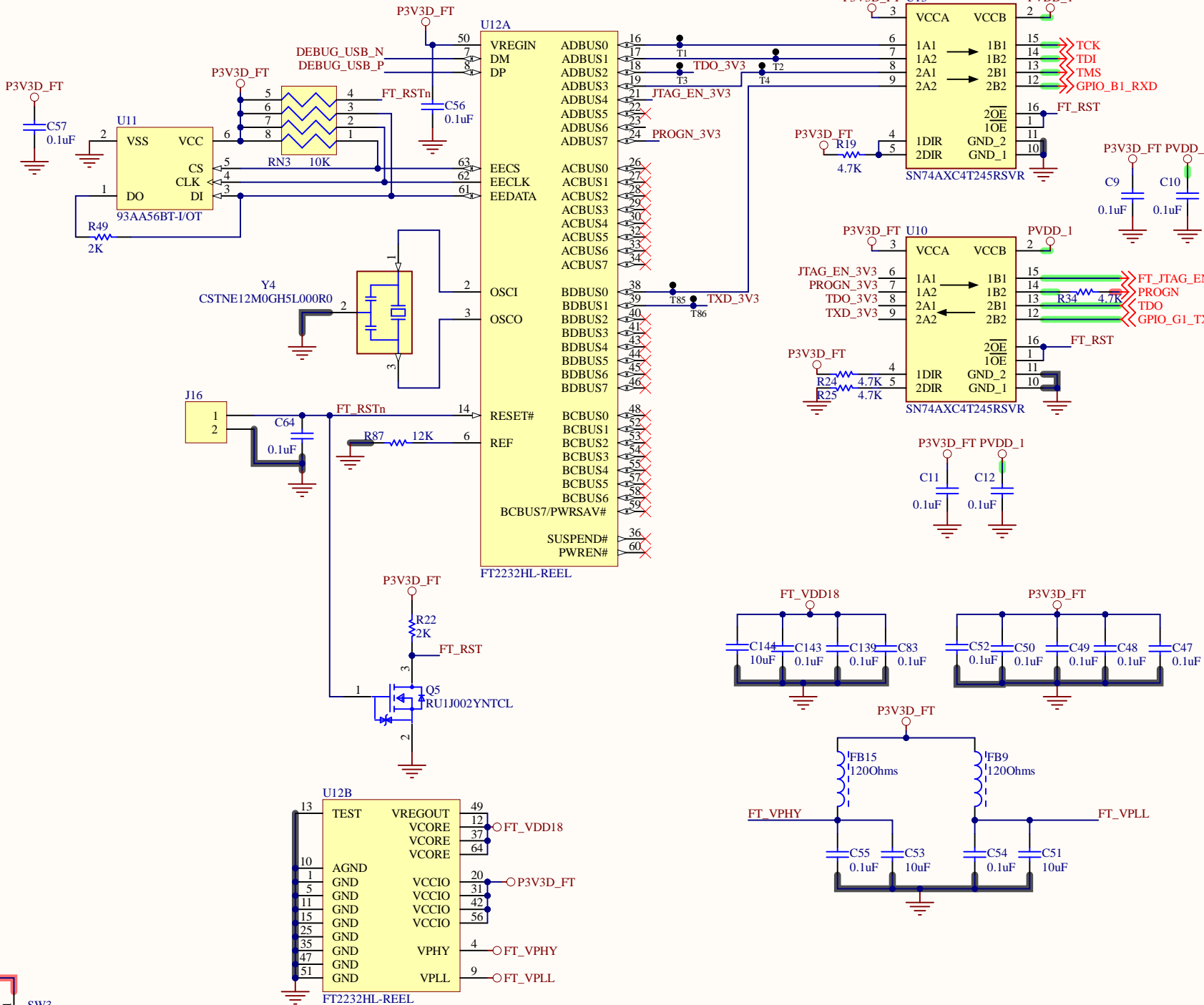
Debug/Programming USB



LED's/Switch



FPGA Programmer



Title **tinyNX33U Module BaseBoard**

Size: **B** Number: **FPGA_Programmer**

Date: 06-06-2025 Time: 11:39:28

File: FPGA_programmer.SchDoc

Revision: 3.0

Sheet 4 of 4

