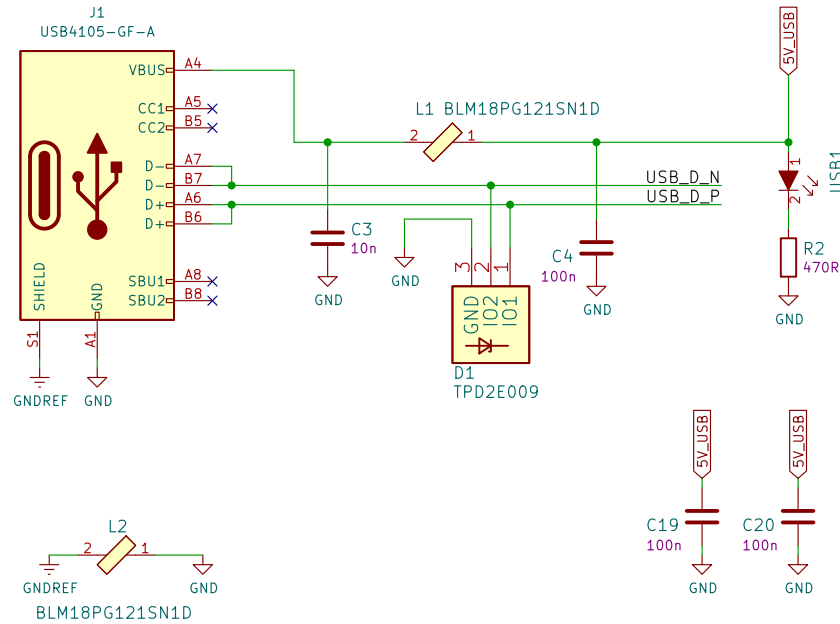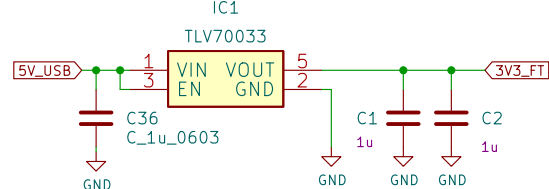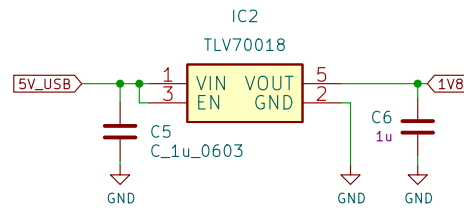# FTDI Toolkit — Schematic

USB-C

5V -> 3.3V LDO 400mA

3V3 -> 1.8V LDO 200mA

Voltage selection

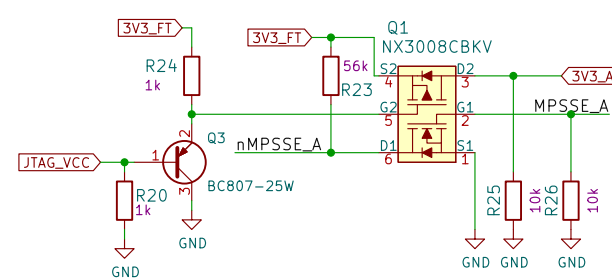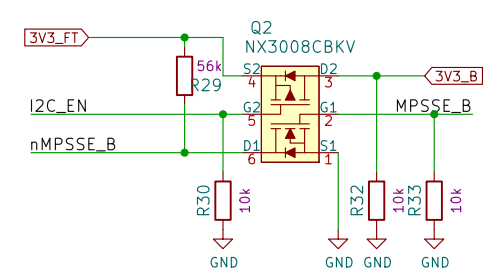| IN1	IN2	VCCIOx	COM
1	1	3V3	NO2
0	1	1V8	NO1
0	0	5V0	NO3
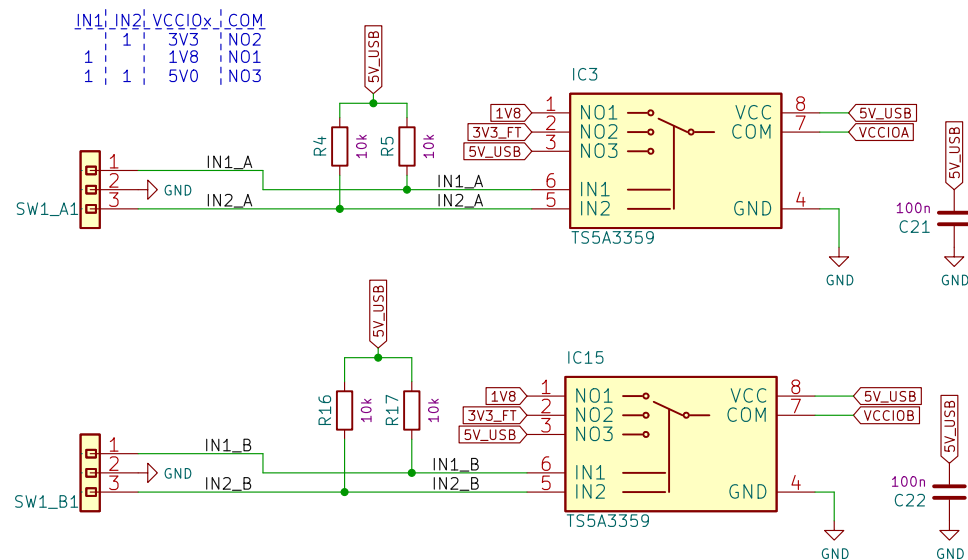
Voltage indicator
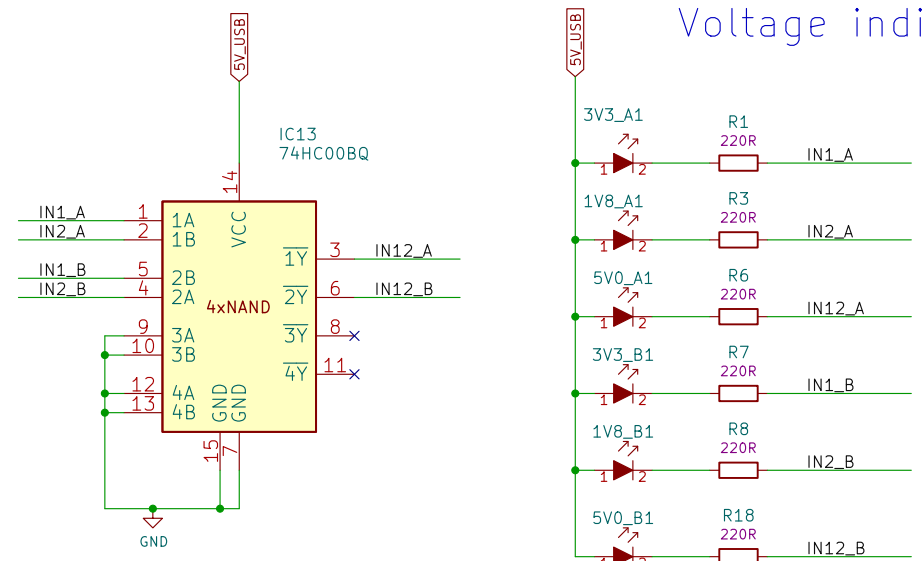
JTAG/UART to USB
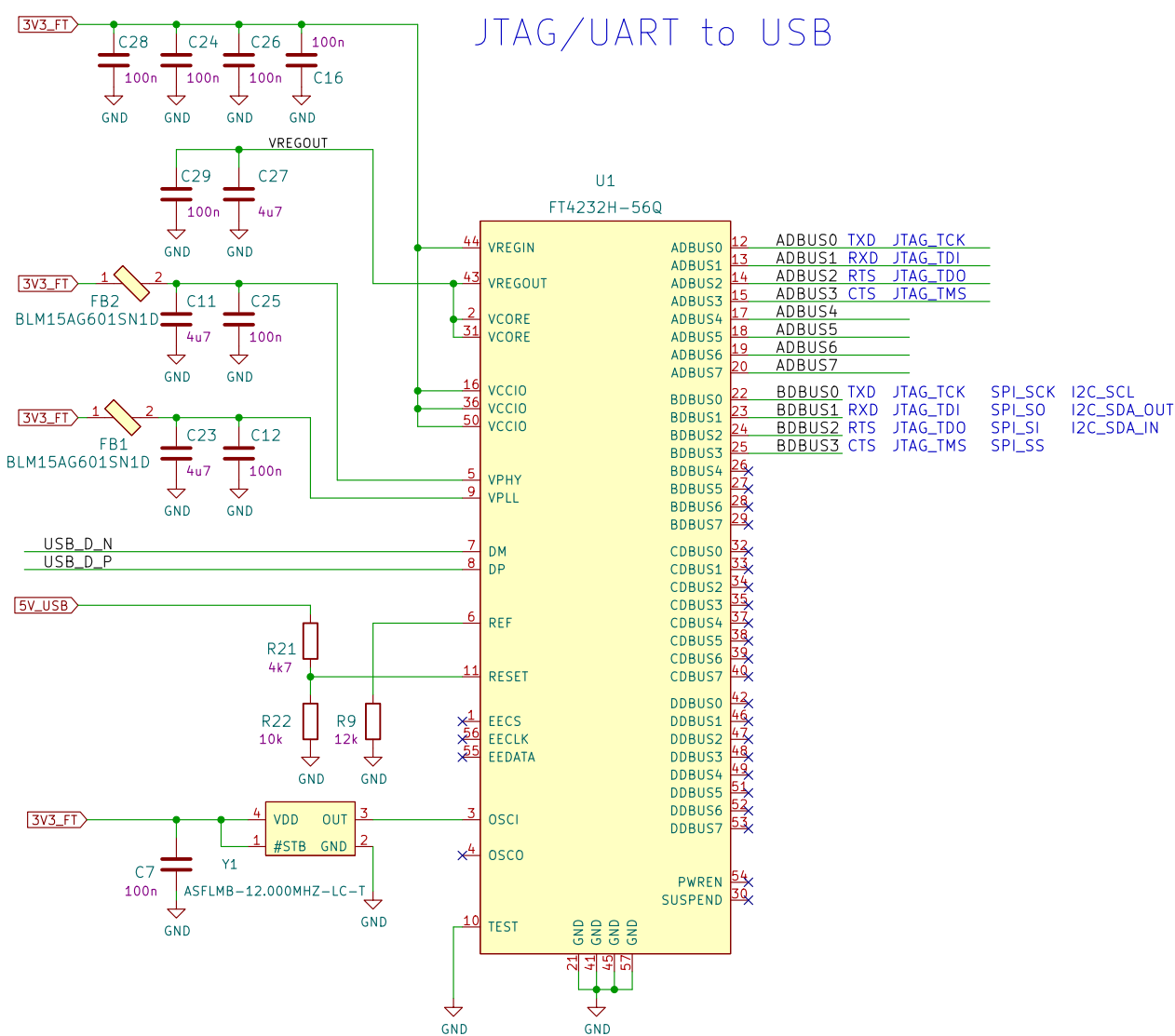
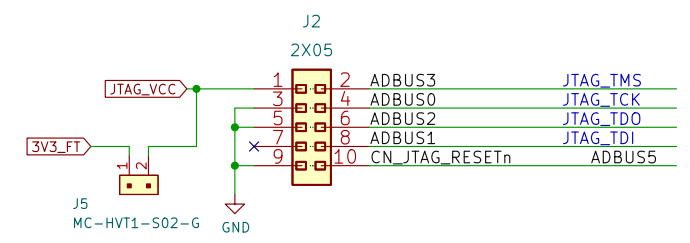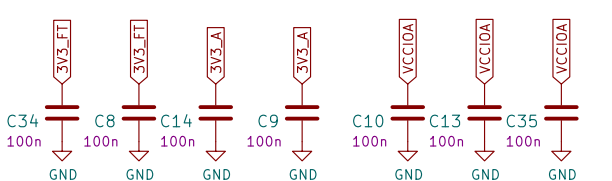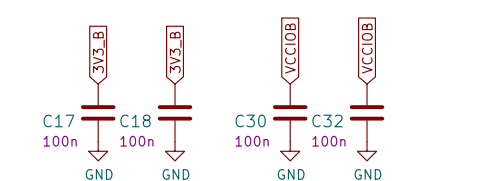## IFA buffer enable and direction

IFB buffer enable and direction
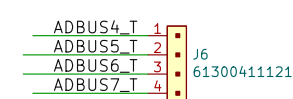
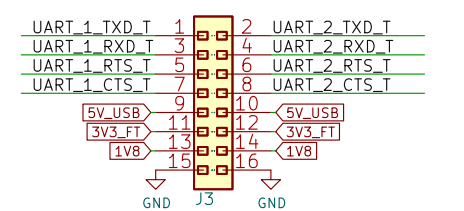## JTAG connector

IFA voltage level translation

IFB voltage level translation

Auxillary connector

Goldpin connector

IFB I2C buffer w/ SDO+SDI switch

Line LED'S

Pin function table

PIN	UART	JTAG	SPI	I2C	SWD
ADBUS0	TXD	JTAG_TCK	SPI_SCK		SW_CLK
ADBUS1	RXD	JTAG_TDI	SPI_MOSI		SW_IO(o)
ADBUS2	RTS	JTAG_TDO	SPI_MISO		SW_IO(i)
ADBUS3	CTS	JTAG_TMS	SPI_CS		
BDBUS0	TXD	JTAG_TCK	SPI_SCK	I2C_SCL	
BDBUS1	RXD	JTAG_TDI	SPI_MOSI	I2C_SDA(o)	
BDBUS2	RTS	JTAG_TDO	SPI_MISO	I2C_SDA(i)	
BDBUS3	CTS	JTAG_TMS	SPI_CS		

MPSSE mode = JTAG/SPI, connector selected by JTAG_VCC

Mode selector
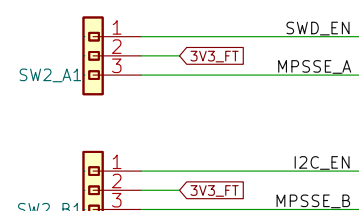
IFA SWD mode switch
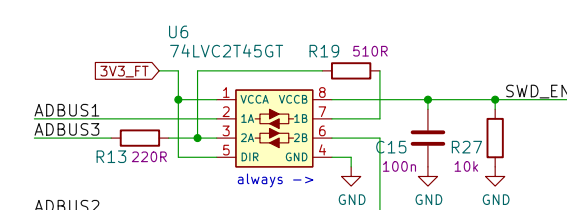
SWD buffered mode switch