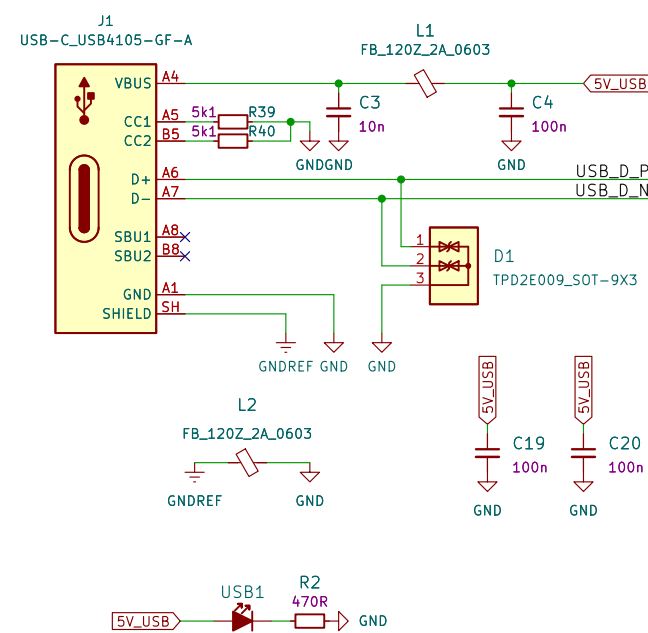
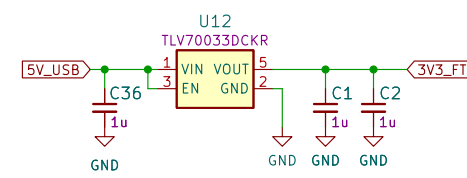


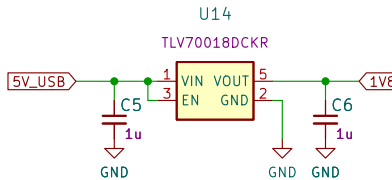
## USB-C



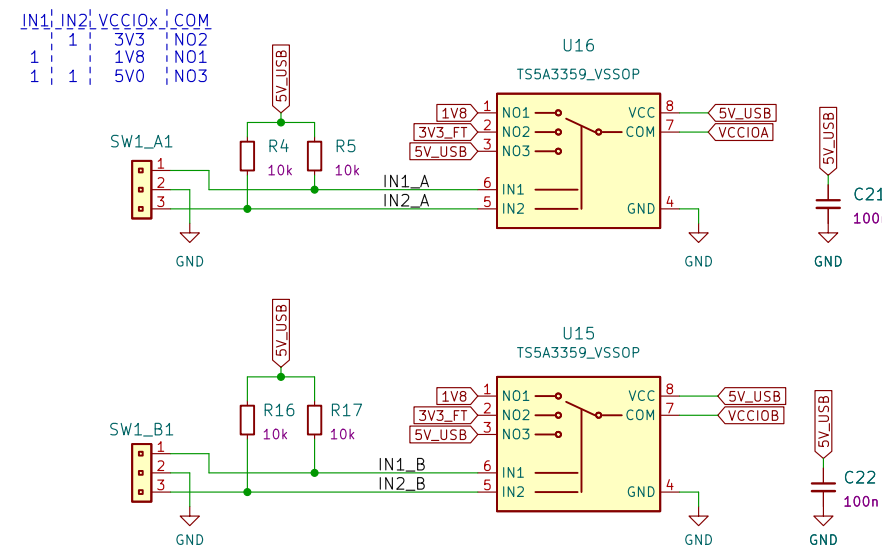
## 5V -> 3.3V LDO 400mA



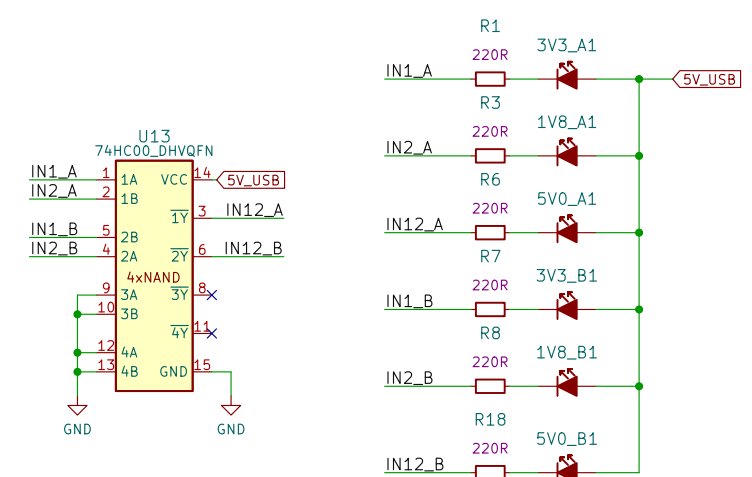
## 3V3 -> 1.8V LDO 200mA



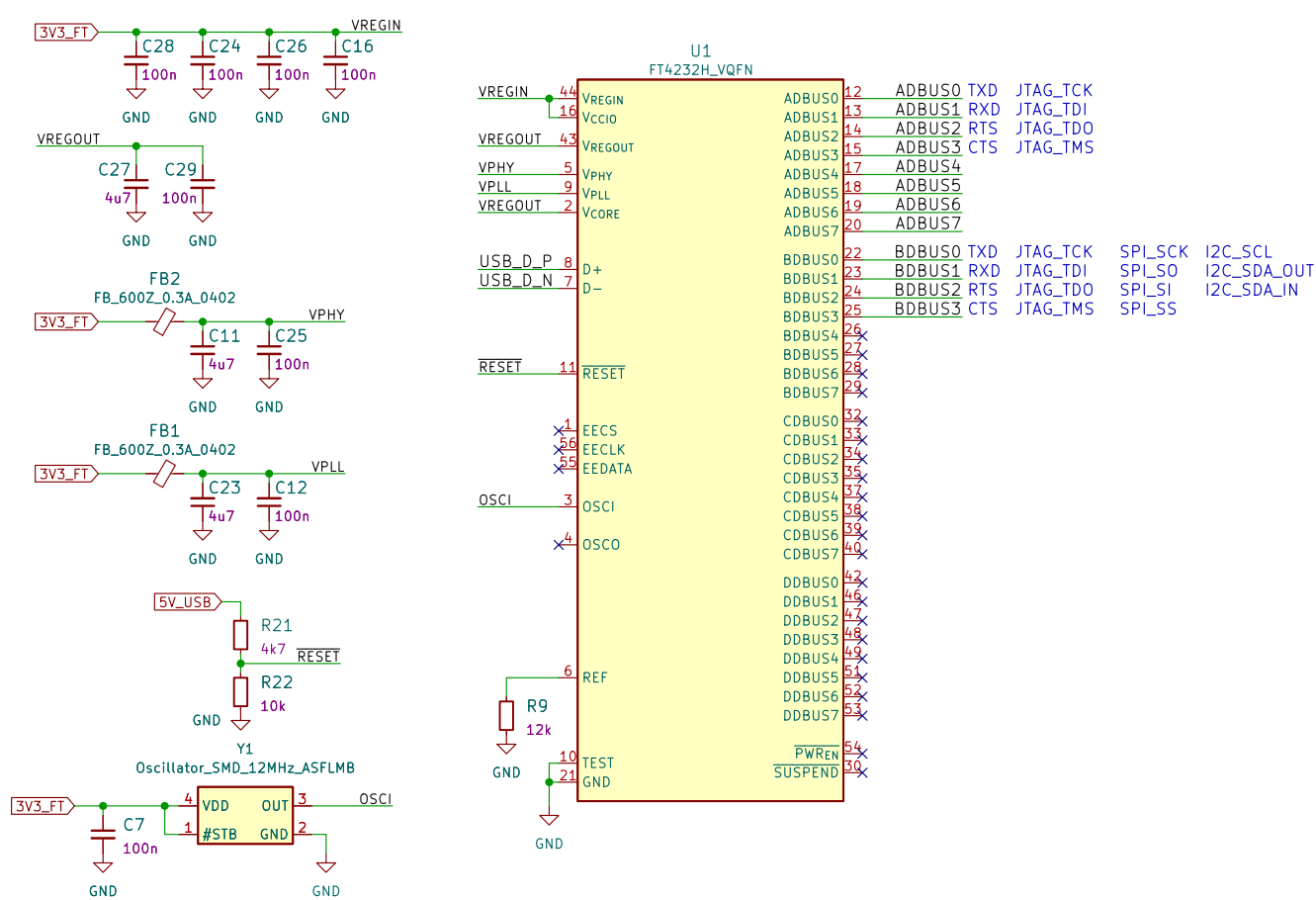
## Voltage selection



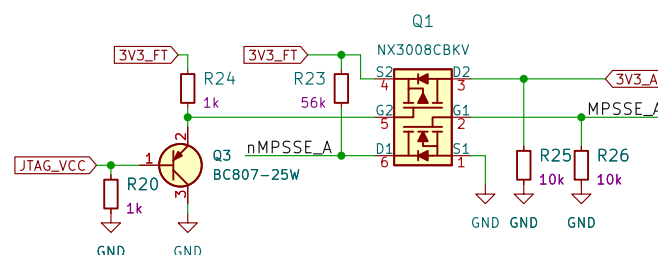
## Voltage indicator



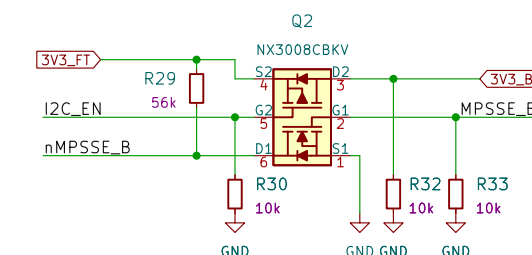
## JTAG/UART to USB



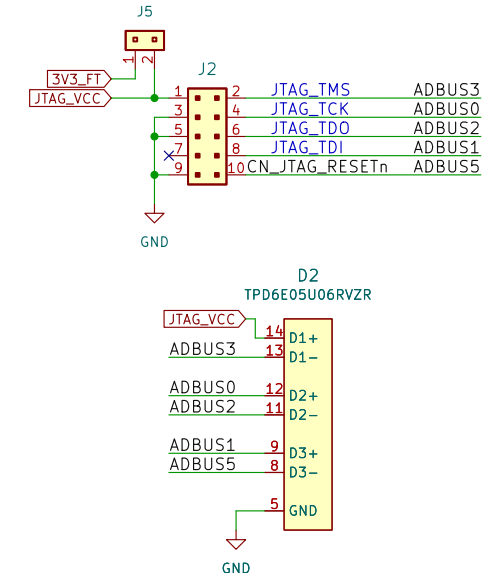
## IFA buffer enable and direction



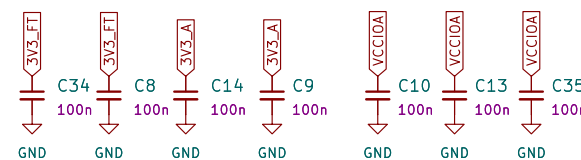
## IFB buffer enable and direction



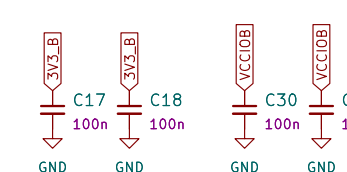
## JTAG connector



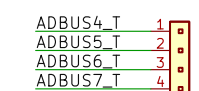
## IFA voltage level translation



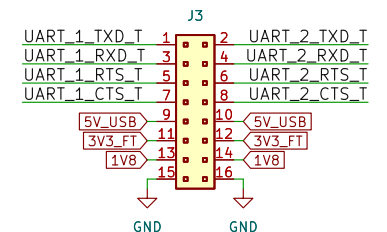
## IFB voltage level translation



## Auxillary connector



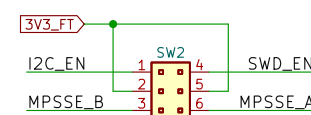
## Goldpin connector



## Pin function table

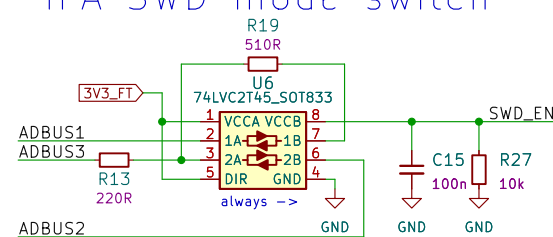
PIN	UART	JTAG	SPI	I2C	SWD
ADBUS0	TXD	JTAG_TCK	SPL_SCK		SW_CLK
ADBUS1	RXD	JTAG_TDI	SPL_MOSI		SW_IO(o)
ADBUS2	RTS	JTAG_TDO	SPL_MISO		SW_IO(i)
ADBUS3	CTS	JTAG_TMS	SPL_CS		
BDBUS0	TXD	JTAG_TCK	SPL_SCK	I2C_SCL	
BDBUS1	RXD	JTAG_TDI	SPL_MOSI	I2C_SDA(o)	
BDBUS2	RTS	JTAG_TDO	SPL_MISO	I2C_SDA(i)	
BDBUS3	CTS	JTAG_TMS	SPL_CS		

## Mode selector

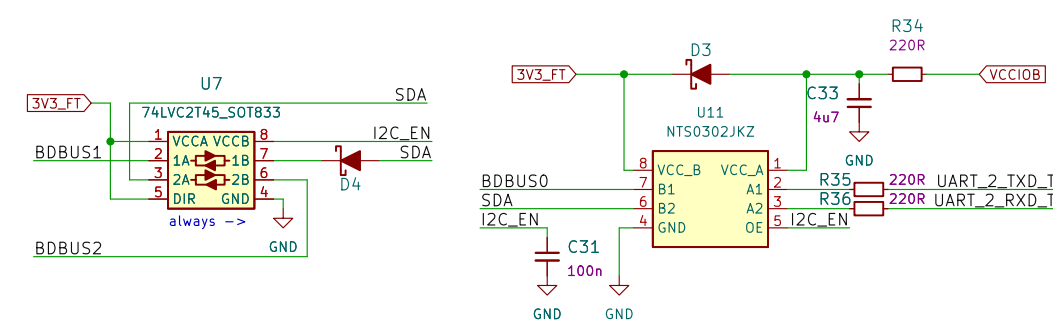


MPSSE mode = JTAG/SPI, connector selected by JTAG\_VCC

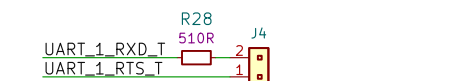
## IFA SWD mode switch



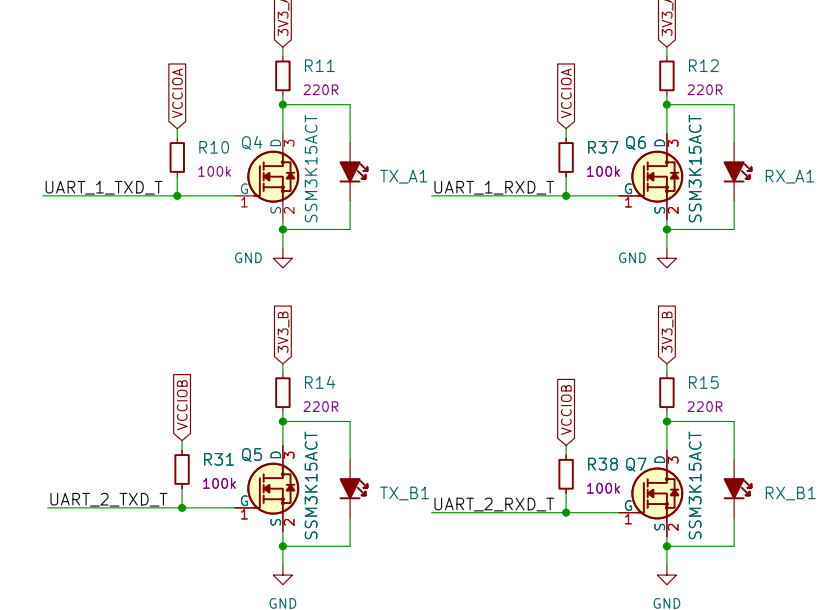
## IFB I2C buffer w/ SDO+SDI switch



## SWD buffered mode switch



## Line LED'S



N1  
Logo antmicro\_logo  
N2  
Logo oshw\_logo

Antmicro Ltd.  
www.antmicro.com

Sheet: /  
File: debug-toolkit.kicad\_sch

Title: Debug Toolkit

Size: A2 Date: 2022-08-03

KiCad E.D.A. eeschema 6.0.11+dfsg-1-bpo11+1

Rev: 1.3.8

Id: 1/1