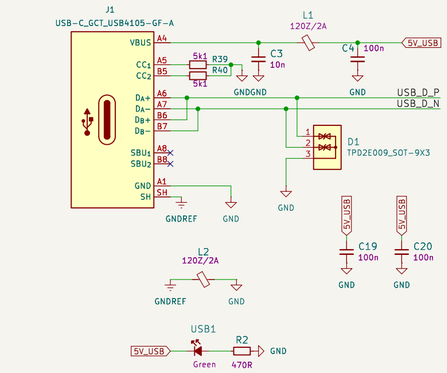
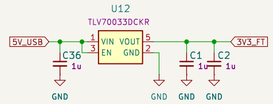
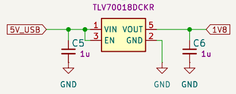
USB-C



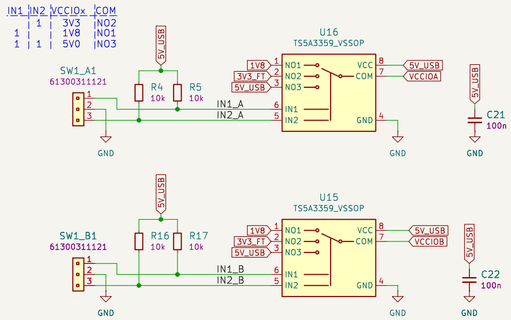
5V -> 3.3V LDO 400mA



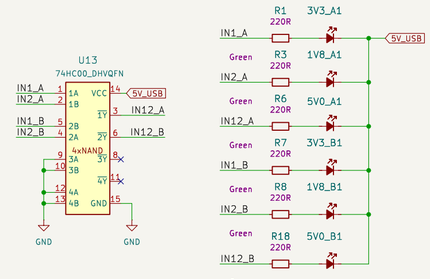
3V3 -> 1.8V LDO 200mA



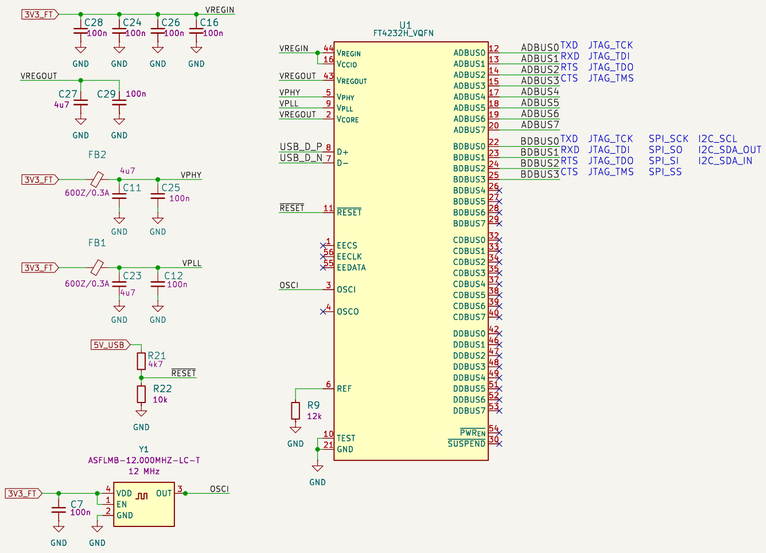
Voltage selection



Voltage indicator



JTAG/UART to USB

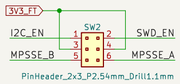


Pin function table

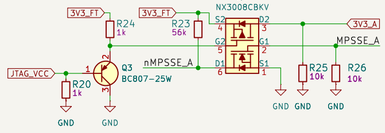
PIN	UART	JTAG	SPI	I2C	SWD
ADBUS0	TXD	JTAG_TCK	SPI_SCK		SW_CLK
ADBUS1	RXD	JTAG_TDI	SPI_MOSI		SW_IO(o)
ADBUS2	RTS	JTAG_TDO	SPI_MISO		SW_IO(i)
ADBUS3	CTS	JTAG_TMS	SPI_CS		
BDBUS0	TXD	JTAG_TCK	SPI_SCK	I2C_SCL	
BDBUS1	RXD	JTAG_TDI	SPI_MOSI	I2C_SDA(o)	
BDBUS2	RTS	JTAG_TDO	SPI_MISO	I2C_SDA(i)	
BDBUS3	CTS	JTAG_TMS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

MPSSE mode = JTAG/SPI, connector selected by JTAG_VCC

Mode selector

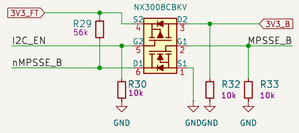


IFA buffer enable and direction



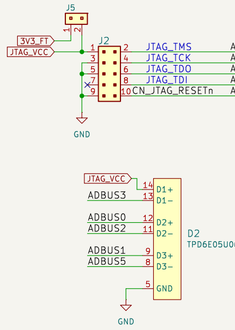
IFA voltage level translation

IFB buffer enable and direction

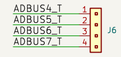


IFB voltage level translation

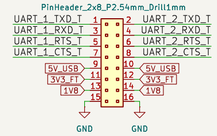
JTAG connector



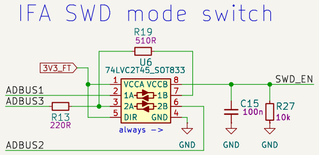
Auxillary connector



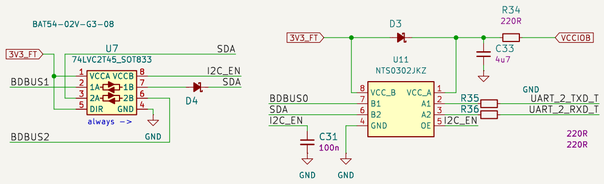
Goldpin connector



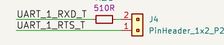
IFA SWD mode switch



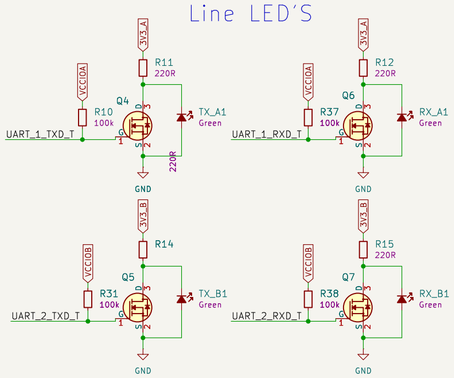
IFB I2C buffer w/ SDO+SDI switch



SWD buffered mode switch



Line LED'S



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Title: Debug Toolkit

Size: A2	Date: 2022-08-03	**Rev: 1.3.8:d2585**
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Logo N1 antmicro_logo

Logo N2 oshw_logo