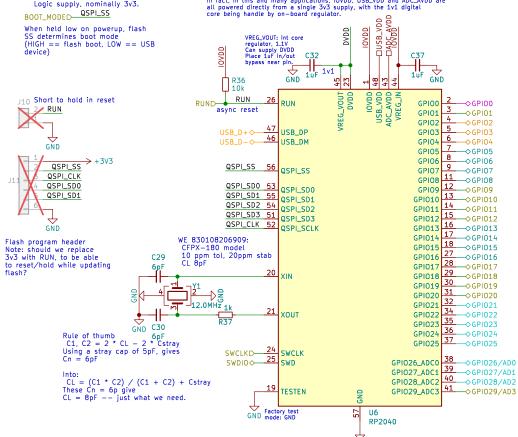
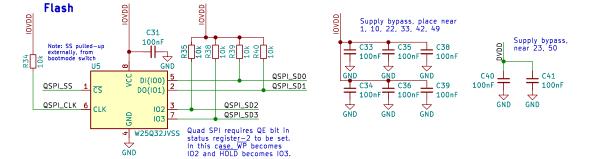


RP2040 Basic Support IOVDD IOVDD USB_VDD supplies USB PHY, nominal 3v3. If IOVDD is 3v3, can share supply. In fact, in this and many applications, IOVDD, USB_VDD and ADC_AVDD are all powered directly from a single 3v3 supply, with the 1v1 digital core being handle by on–board regulator. $\hfill\Box$ Logic supply, nominally 3v3. BOOT_MODED QSPI_SS





GND

GND

	Function								
GPIO	F1	F2	F3	F4	F5	F6	F7	F8	F9
0	SPI0 RX	UARTO TX	I2C0 SDA	PWM0 A	SIO	PI00	PI01		USB OVCUR DE
1	SPI0 CSn	UARTO RX	I2C0 SCL	PWM0 B	SIO	PIO0	PIO1		USB VBUS DET
2	SPI0 SCK	UARTO CTS	I2C1 SDA	PWM1 A	SIO	PIO0	PIO1		USB VBUS EN
3	SPI0 TX	UARTO RTS	I2C1 SCL	PWM1 B	SIO	PIO0	PIO1		USB OVCUR DE
4	SPI0 RX	UART1 TX	I2C0 SDA	PWM2 A	SIO	PIO0	PIO1		USB VBUS DET
5	SPI0 CSn	UART1 RX	I2C0 SCL	PWM2 B	SIO	PIO0	PI01		USB VBUS EN
6	SPI0 SCK	UART1 CTS	I2C1 SDA	PWM3 A	SIO	PIO0	PI01		USB OVCUR DE
7	SPI0 TX	UART1 RTS	I2C1 SCL	РWМ3 В	SIO	PIO0	PI01		USB VBUS DET
8	SPI1 RX	UART1 TX	I2C0 SDA	PWM4 A	SIO	PIO0	PIO1		USB VBUS EN
9	SPI1 CSn	UART1 RX	I2C0 SCL	PWM4 B	SIO	PIO0	PIO1		USB OVCUR DE
10	SPI1 SCK	UART1 CTS	I2C1 SDA	PWM5 A	SIO	PIO0	PI01		USB VBUS DET
11	SPI1 TX	UART1 RTS	I2C1 SCL	PWM5 B	SIO	PIO0	PI01		USB VBUS EN
12	SPI1 RX	UARTO TX	I2C0 SDA	PWM6 A	SIO	PIO0	PI01		USB OVCUR DE
13	SPI1 CSn	UARTO RX	I2C0 SCL	PWM6 B	SIO	PI00	PIO1		USB VBUS DET
14	SPI1 SCK	UARTO CTS	I2C1 SDA	PWM7 A	SIO	PI00	PIO1		USB VBUS EN
15	SPI1 TX	UARTO RTS	I2C1 SCL	PWM7 B	SIO	PI00	PIO1		USB OVCUR DE
16	SPI0 RX	UARTO TX	I2C0 SDA	PWM0 A	SIO	PIO0	PIO1		USB VBUS DET
17	SPI0 CSn	UARTO RX	I2C0 SCL	PWM0 B	SIO	PIO0	PIO1		USB VBUS EN
18	SPI0 SCK	UARTO CTS	I2C1 SDA	PWM1 A	SIO	PI00	PIO1		USB OVCUR DE
19	SPI0 TX	UARTO RTS	I2C1 SCL	PWM1 B	SIO	PIO0	PI01		USB VBUS DET
20	SPI0 RX	UART1 TX	I2C0 SDA	PWM2 A	SIO	PI00	PIO1	CLOCK GPIN0	USB VBUS EN
21	SPI0 CSn	UART1 RX	I2C0 SCL	PWM2 B	SIO	PI00	PIO1	CLOCK GPOUTO	USB OVCUR DE
22	SPI0 SCK	UART1 CTS	I2C1 SDA	PWM3 A	SIO	PI00	PI01	CLOCK GPIN1	USB VBUS DET
23	SPI0 TX	UART1 RTS	I2C1 SCL	PWM3 B	SIO	PI00	PIO1	CLOCK GPOUT1	USB VBUS EN
24	SPI1 RX	UART1 TX	I2C0 SDA	PWM4 A	SIO	PI00	PIO1	CLOCK GPOUT2	USB OVCUR DE
25	SPI1 CSn	UART1 RX	I2C0 SCL	PWM4 B	SIO	PI00	PI01	CLOCK GPOUT3	USB VBUS DET
26	SPI1 SCK	UART1 CTS	I2C1 SDA	PWM5 A	SIO	PI00	PI01		USB VBUS EN
27	SPI1 TX	UART1 RTS	I2C1 SCL	PWM5 B	SIO	PI00	PI01		USB OVCUR DE
28	SPI1 RX	UARTO TX	I2C0 SDA	PWM6 A	SIO	PI00	PI01		USB VBUS DET
29	SPI1 CSn	UARTO RX	I2C0 SCL	PWM6 B	SIO	PIOO	PIO1		USB VBUS EN

(C) 2023, 2024 Pat Deegan

Psychogenic Technologies

Sheet: /RP2040/ File: rp2040.kicad sch

	Title:	Tiny	Tapeout	4/5	Demo	Board
--	--------	------	---------	-----	------	-------

Size: A4	Date: 20	24-04-12		Rev: 1.2.2
KiCad E.D.A. 8.0	.8			ld: 2/2
4			5	•