

DIVA ENG

Sheet: /
File: diva-card.kicad_sch

Title: Pico Card

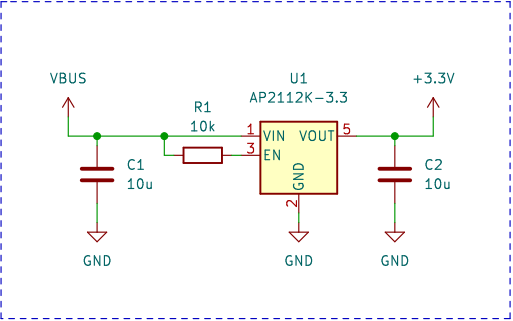
Size: A4 Date: 2022-05-28

KiCad E.D.A. kicad (6.0.5)

Rev: v1.0

Id: 1/5

Power and filtering



DIVA ENG

Sheet: /power_supply/
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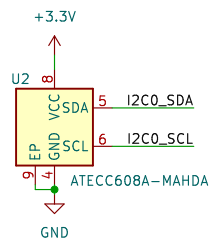
Rev: v1.0

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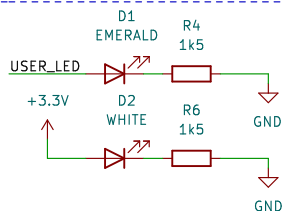
Interface

USER_LED< USER_LED
QSPI_CS< QSPI_CS
QSPI_SCLK< QSPI_SCLK
QSPI_SIO0< QSPI_SIO0
QSPI_SIO1< QSPI_SIO1
QSPI_SIO2< QSPI_SIO2
QSPI_SIO3< QSPI_SIO3
I2C0_SDA< I2C0_SDA
I2C0_SCL< I2C0_SCL
LED_DI< LED_DI
LED_DID< LED_DID
USER_SW0< USER_SW0
RESET< RESET

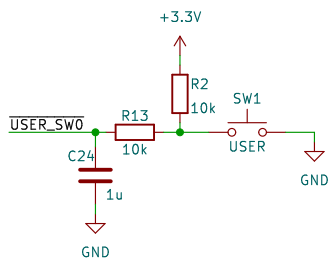
Crypto Authentication Unit



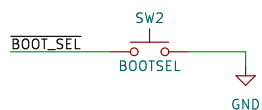
LEDs



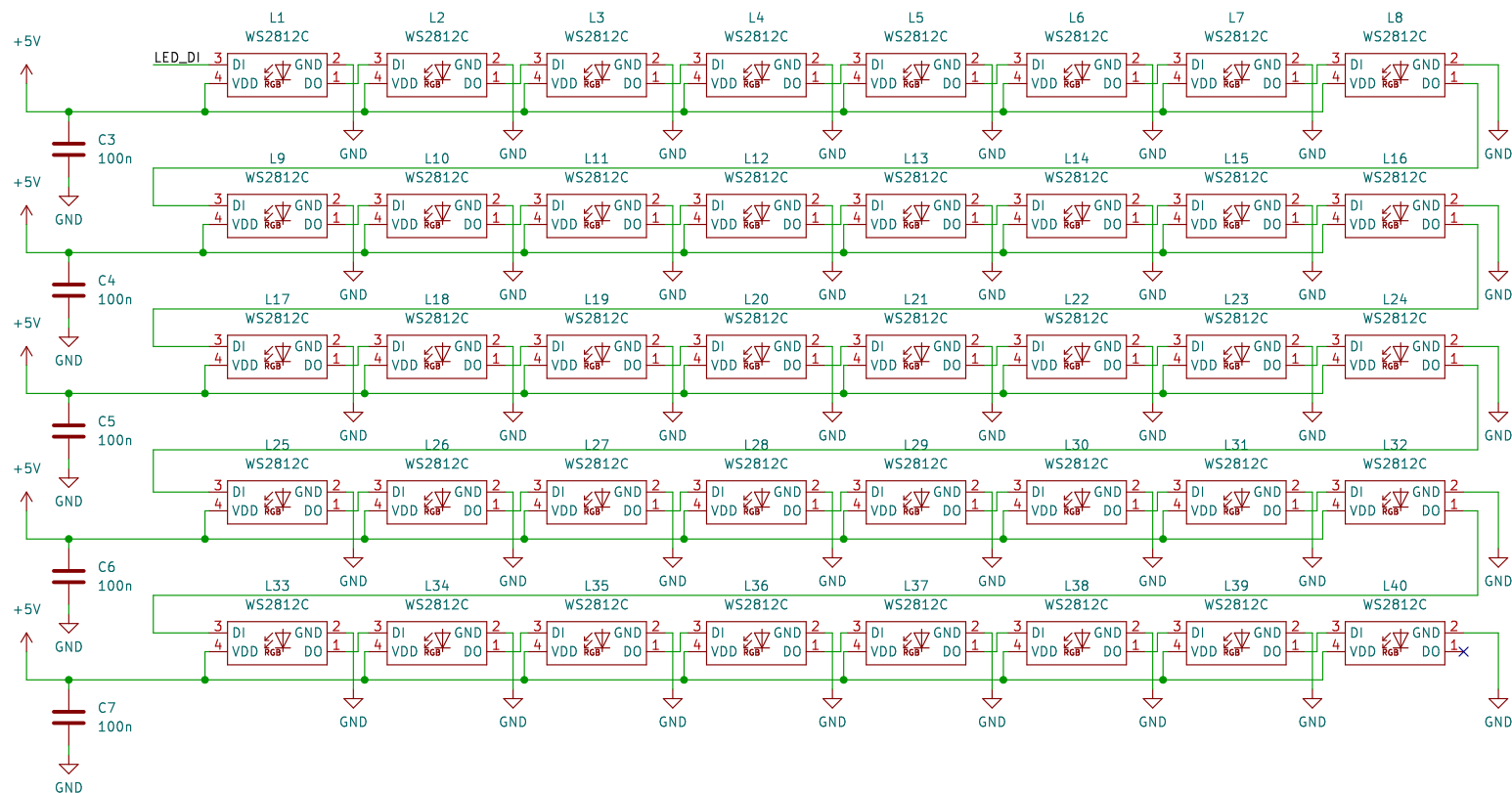
User Switch



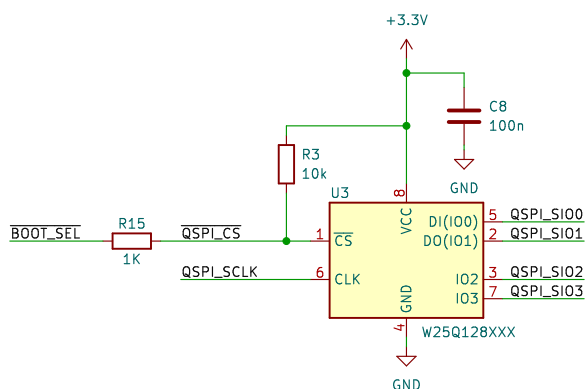
USB Boot Switch



LED Matrix



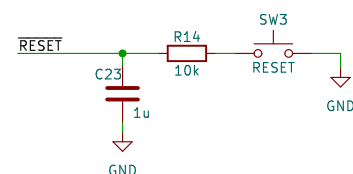
Flash Storage



Fiducial and Mounting Hole



Reset Switch



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Sheet: /peripherals/
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Interface (IN)

SWCLK → QSWCLK
SWDIO → QSWDIO

QSPI_CS → QQSPI_CS
QSPI_SCLK → QQSPI_SCLK
QSPI_SIO0 → QQSPI_SIO0
QSPI_SIO1 → QQSPI_SIO1
QSPI_SIO2 → QQSPI_SIO2
QSPI_SIO3 → QQSPI_SIO3
RESET → QRESET

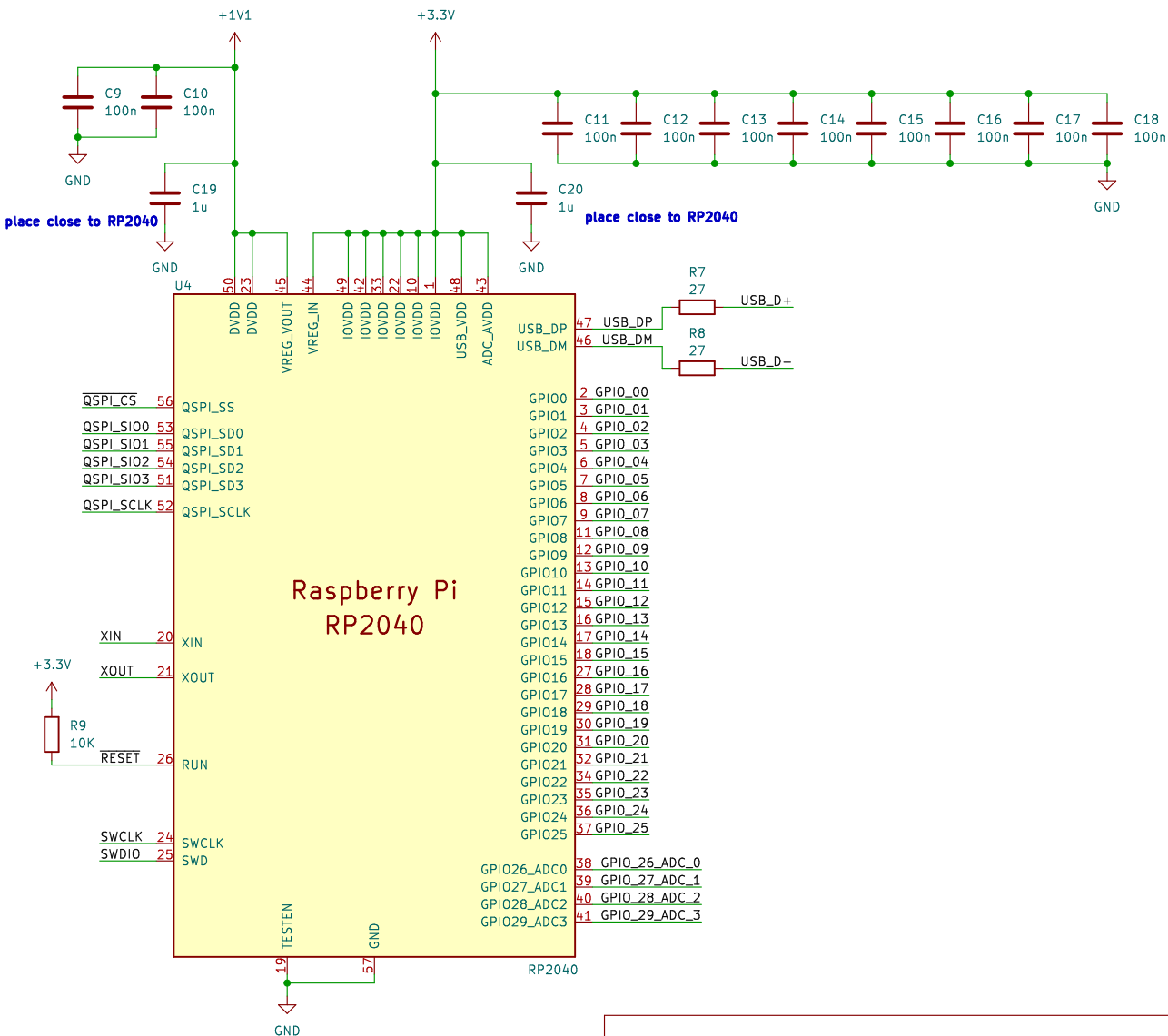
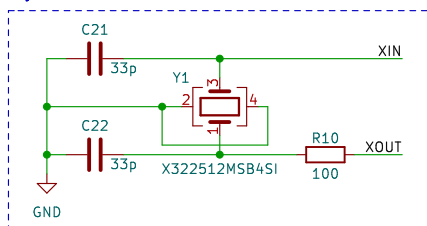
Interface (OUT)

USB_D+ → USB_D+
USB_D- → USB_D-

GPIO_00 → GPIO_00
GPIO_01 → GPIO_01
GPIO_02 → GPIO_02
GPIO_03 → GPIO_03
GPIO_04 → GPIO_04
GPIO_05 → GPIO_05
GPIO_06 → GPIO_06
GPIO_07 → GPIO_07
GPIO_08 → GPIO_08
GPIO_09 → GPIO_09
GPIO_10 → GPIO_10
GPIO_11 → GPIO_11
GPIO_12 → GPIO_12
GPIO_13 → GPIO_13
GPIO_14 → GPIO_14
GPIO_15 → GPIO_15
GPIO_16 → GPIO_16
GPIO_17 → GPIO_17
GPIO_18 → GPIO_18
GPIO_19 → GPIO_19
GPIO_20 → GPIO_20
GPIO_21 → GPIO_21
GPIO_22 → GPIO_22
GPIO_23 → GPIO_23
GPIO_24 → GPIO_24
GPIO_25 → GPIO_25

GPIO_26_ADC_0 → GPIO_26_ADC_0
GPIO_26_ADC_1 → GPIO_26_ADC_1
GPIO_26_ADC_2 → GPIO_26_ADC_2
GPIO_26_ADC_3 → GPIO_26_ADC_3

Crystal



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Sheet: /microcontroller/
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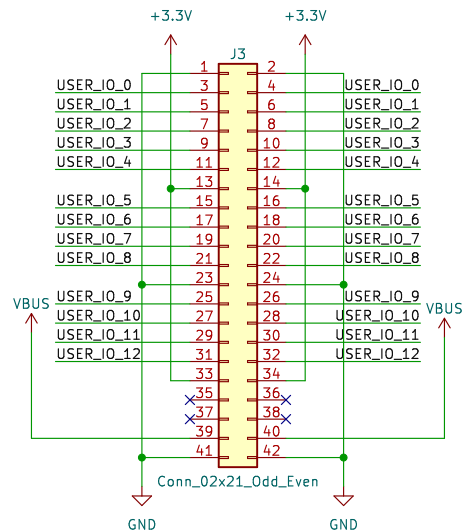
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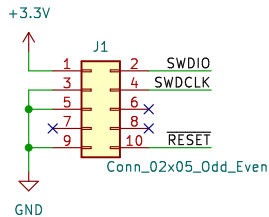
Interface

RESET	RESET	USER_IO_9D	USER_IO_9
SWDCLK	SWDCLK	USER_IO_10D	USER_IO_10
SWDIO	SWDIO	USER_IO_11D	USER_IO_11
USB_D+	USB_D+	USER_IO_12D	USER_IO_12
USB_D-	USB_D-		
USER_IO_0D	USER_IO_0		
USER_IO_1D	USER_IO_1		
USER_IO_2D	USER_IO_2		
USER_IO_3D	USER_IO_3		
USER_IO_4D	USER_IO_4		
USER_IO_5D	USER_IO_5		
USER_IO_6D	USER_IO_6		
USER_IO_7D	USER_IO_7		
USER_IO_8D	USER_IO_8		

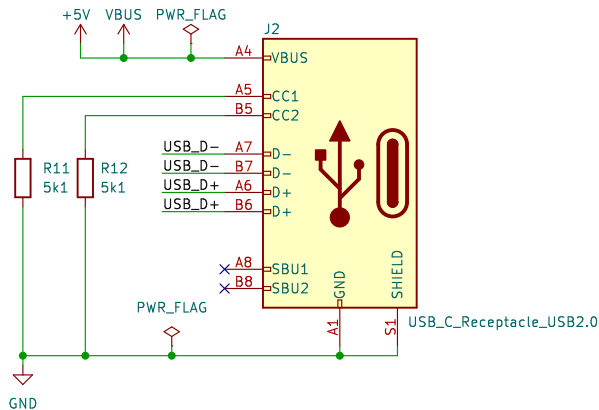
Edge Connector



SWD



USB-C



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