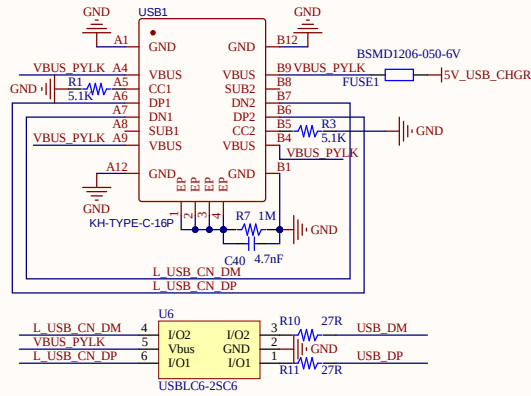
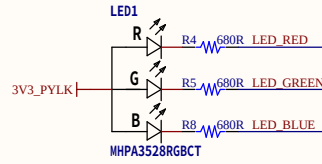


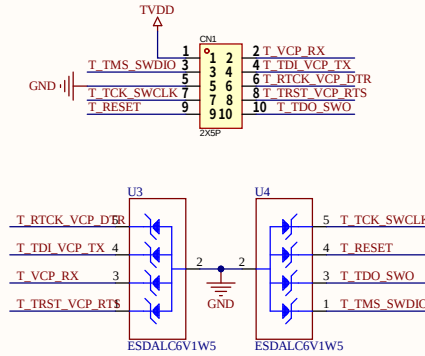
USB



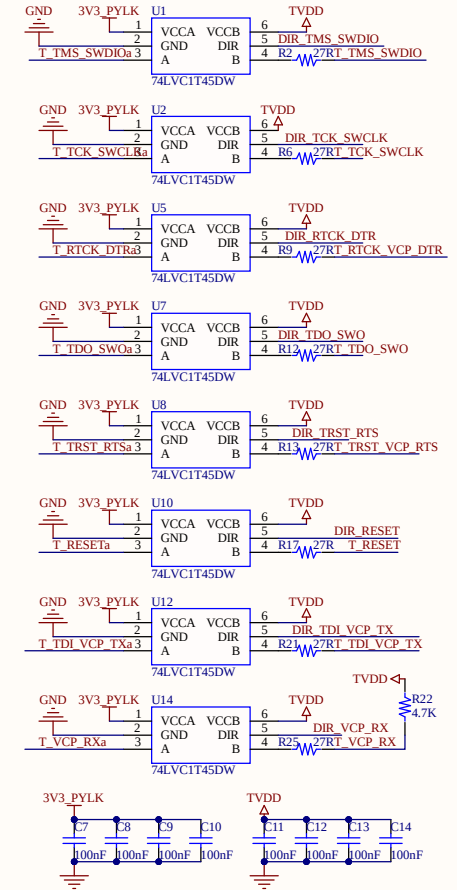
LED



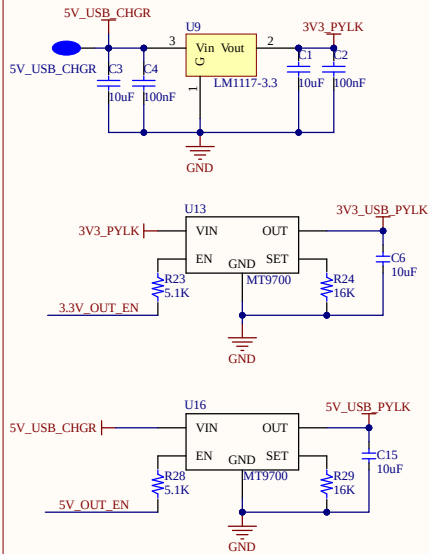
Debug Connector



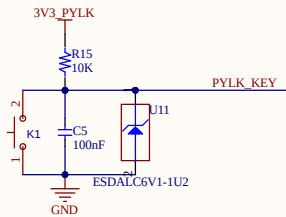
Level Shift



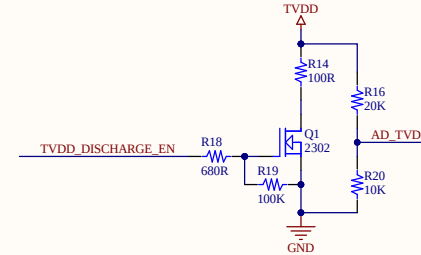
Power



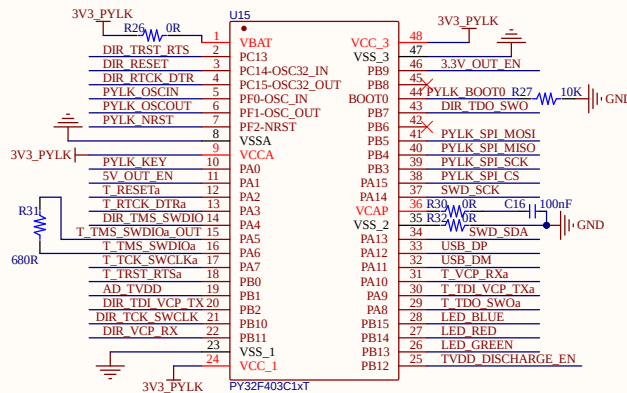
Key



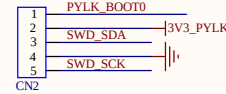
ADC&Electric discharge



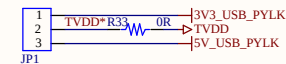
MCU



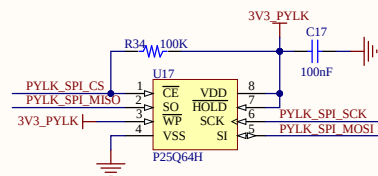
SWD



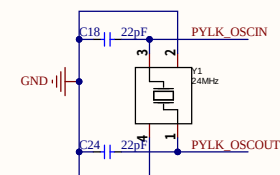
TVDD_Selection



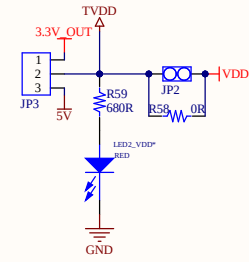
Flash



OSC

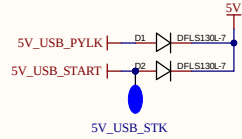


The diagram illustrates the VDD Selection circuit. It features a 3.3V_OUT pin connected to a 5V pin on a JP3 header. The 3.3V_OUT pin is also connected to a TVDD pin. A 600R resistor (R59) is connected between TVDD and a JP2 header. A 0R resistor (R59) is connected between JP2 and VDD. An LED labeled 'LED3_VDDP' and 'RED' is connected between TVDD and GND.



5V_PWR_Selection

The diagram illustrates a 5V_PWR_Selection circuit. It features two input signals, `5V_USB_PYLK` and `5V_USB_START`, which are connected to diodes `D1` and `D2` respectively. The cathodes of both diodes are connected to a common node, which is then connected to the `5V_USB_STK` output. The anodes of both diodes are connected to a common 5V supply line.

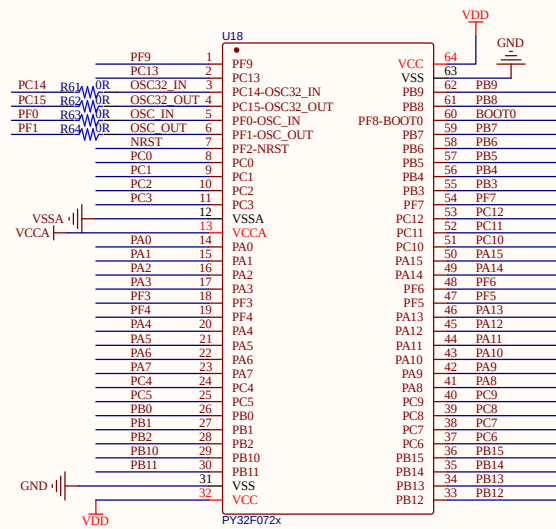


Pinout diagram for the U18 component. The diagram shows the following connections:

- VDD** (Red line) connected to pin 64.
- GND** (Black line) connected to pin 63.
- VSSA** (Blue line) connected to pin 13.
- VCCA** (Blue line) connected to pin 12.

The component pins are labeled as follows:

Pin	Label
1	PF9
2	PC13
3	OSC32_IN
4	OSC32_OUT
5	OSC_IN
6	OSC_OUT
7	NRST
8	PC0
9	PC1
10	PC2
11	PC3
12	VCCA
13	VSSA
64	VDD
63	GND
62	PB9
61	PB8
60	BOOT0
59	PB7
58	PB6
57	PB5
56	PB4
55	PB3
54	PF7
53	PC12
52	PC11

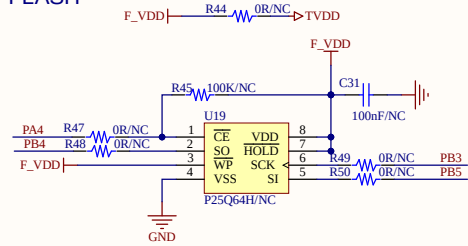


FLASH

The diagram shows the electrical connections for a P25Q64H/NC flash memory device. The chip is represented by a yellow rectangle with pins numbered 1 through 8. The connections are as follows:

- Pin 1 (CE):** Connected to F_VDD through a resistor R45 (100K/NC).
- Pin 2 (SO):** Connected to PA4 through a resistor R47 (0R/NC).
- Pin 3 (WP):** Connected to PB4 through a resistor R48 (0R/NC).
- Pin 4 (VSS):** Connected to GND.
- Pin 5 (SCK):** Connected to PB5 through a resistor R50 (0R/NC).
- Pin 6 (HOLD):** Connected to F_VDD through a resistor R49 (0R/NC).
- Pin 7 (SI):** Connected to F_VDD through a capacitor C31 (100nF/NC).
- Pin 8 (VDD):** Connected to F_VDD.

The chip is labeled P25Q64H/NC.



Debug Connector

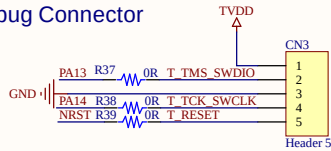
The diagram shows a 5-pin header (CN3) connected to a microcontroller. The pins are:

- Pin 1: GND
- Pin 2: PA13
- Pin 3: PA14
- Pin 4: NRST
- Pin 5: Header 5

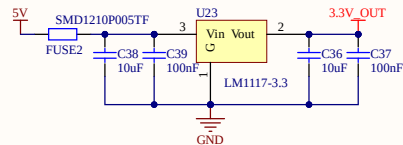
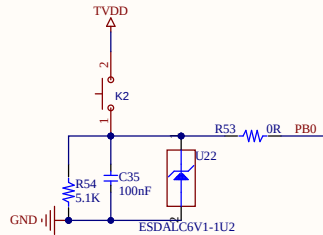
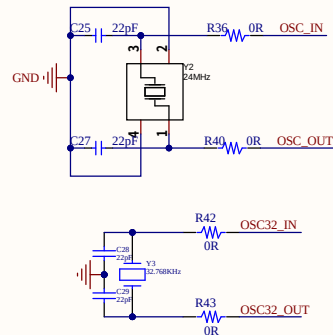
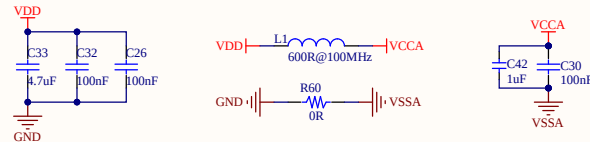
The microcontroller pins are:

- PA13
- PA14
- NRST
- TMS
- TCK
- SWCLK
- T
- RESET

The header pins are connected to the microcontroller pins via resistors R37, R38, and R39. The header pin 1 is connected to GND. The header pin 5 is connected to TVDD.



Key

[illegible]

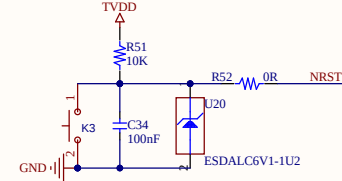
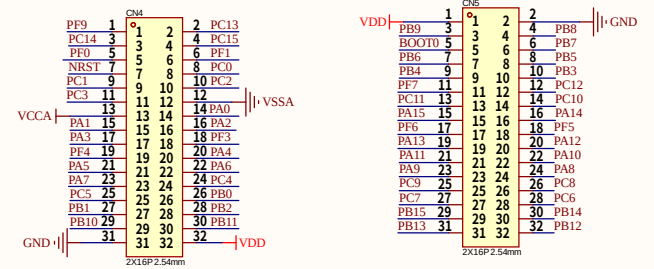
Extension PIN

Left Pinout (VCCA, GND, VDD):

Pin	Function
1	PF9
2	PC14
3	PF0
4	NRST
5	PC1
6	PC3
7	PA1
8	PA3
9	PF4
10	PA5
11	PA7
12	PC5
13	PC9
14	PCB1
15	PCB2
16	PCB11
17	PCB12
18	PCB13
19	PCB14
20	PCB15
21	PCB16
22	PCB17
23	PCB18
24	PCB19
25	PCB20
26	PCB21
27	PCB22
28	PCB23
29	PCB24
30	PCB25
31	PCB26
32	PCB27

Right Pinout (VDD, GND, VDD):

Pin	Function
1	BOOT0
2	BOOT1
3	BOOT2
4	BOOT3
5	BOOT4
6	BOOT5
7	BOOT6
8	BOOT7
9	BOOT8
10	BOOT9
11	BOOT10
12	BOOT11
13	BOOT12
14	BOOT13
15	BOOT14
16	BOOT15
17	BOOT16
18	BOOT17
19	BOOT18
20	BOOT19
21	BOOT20
22	BOOT21
23	BOOT22
24	BOOT23
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26	BOOT25
27	BOOT26
28	BOOT27
29	BOOT28
30	BOOT29
31	BOOT30
32	BOOT31



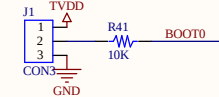
LED

The diagram shows a circuit for an LED. A blue line represents the power supply rail, labeled TVDD on the left and PB2 on the right. A green LED is connected between this rail and ground. The LED is labeled LED0_PB2 and GREEN. A resistor, labeled R46 and 680R, is connected between the LED's anode and the PB2 pin.



BOOT_SEL

The diagram shows a 3-pin header J1. Pin 1 is connected to TVDD. Pin 2 is connected to a 10K resistor R41, which is then connected to the BOOT0 pin. Pin 3 is connected to GND.



USB & POWER

