

LED1

3V3_PYLK

R4 680R LED RED

R6 680R LED GREEN

R9 680R LED BLUE

MHPA3528RGBCT

The diagram illustrates the ESD protection circuit for the TMS320C67x5. It shows two ESD protection diodes, U3 and U4, connected to the TMS320C67x5 pins. U3 is connected to the TMS320C67x5 pins 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. U4 is connected to the TMS320C67x5 pins 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. The diagram also shows the connection of the TMS320C67x5 pins to the TMS320C67x5 pins 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. The diagram is labeled 'ESD Protection Circuit' and 'TMS320C67x5'.

Three circuit diagrams showing the connection of three 74LVC145D decoders (U1, U2, U5) to a 7-segment display. Each decoder has VCC connected to 3V3_PYLK and GND connected to GND. The outputs of U1 (pins 6, 5, 4) are DIR, TMS, and SWDIO, connected to a 27k resistor and then to a 1M resistor to GND. The outputs of U2 (pins 6, 5, 4) are DIR, TCK, and SWCLK, connected to a 27k resistor and then to a 1M resistor to GND. The outputs of U5 (pins 6, 5, 4) are DIR, RTCK, and DTR, connected to a 27k resistor and then to a 1M resistor to GND. The 7-segment display is connected to the outputs of the decoders via a 1M resistor.

The image displays three circuit diagrams, each implementing a 3.3V USB-PYLK signal using a different IC.

Top Diagram (LM1117-3.3): This circuit uses an LM1117-3.3 voltage regulator (U9). The input (Vin) is connected to a 5V_USB_CHGR signal through a 10uF capacitor (C4). The output (Vout) is connected to a 3V3_PYLK signal through a 100nF capacitor (C5). The regulator is also connected to ground (GND) at its input and output pins. A 100nF capacitor (C3) is connected between the output and ground.

Middle Diagram (MT9700): This circuit uses an MT9700 IC (U13). The input (VIN) is connected to a 3V3_USB_PYLK signal through a 4.7K resistor (R24). The output (OUT) is connected to a 3.3V_OUT_EN signal through a 16K resistor (R25). The IC is connected to ground (GND) at its input and output pins. A 10uF capacitor (C7) is connected between the output and ground.

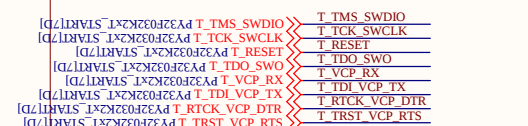
Bottom Diagram (MT19700): This circuit uses an MT19700 IC (U16). The input (VIN) is connected to a 5V_USB_CHGR signal through a 4.7K resistor (R29). The output (OUT) is connected to a 5V_USB_PYLK signal through a 16K resistor (R30). The IC is connected to ground (GND) at its input and output pins. A 10uF capacitor (C16) is connected between the output and ground.

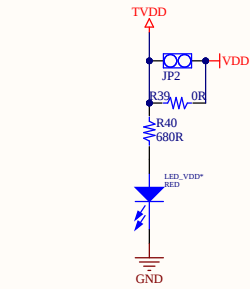
Diagram showing the connection of pins 1 through 5 of connector CN2:

- Pin 1: PTER_B0010
- Pin 2: SWD_SDA, 3V3_PYLK
- Pin 3: SWD_SDA
- Pin 4: SWD_SCK
- Pin 5: GND

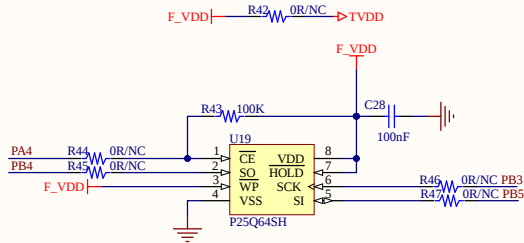
Diagram illustrating the connection for the TVDD pin configuration:

- Pin 1 is connected to 3V3_USB_PYLK.
- Pin 2 is connected to TVDD* R34, which is then connected to TVDD.
- Pin 3 is connected to 5V_USB_PYLK.

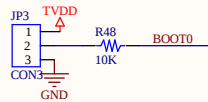




FLASH



BOOT_OPTION

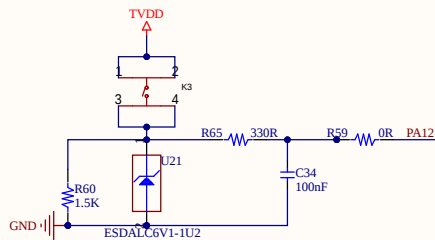
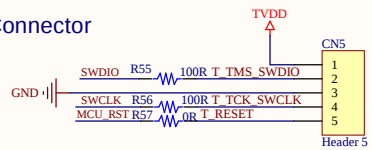
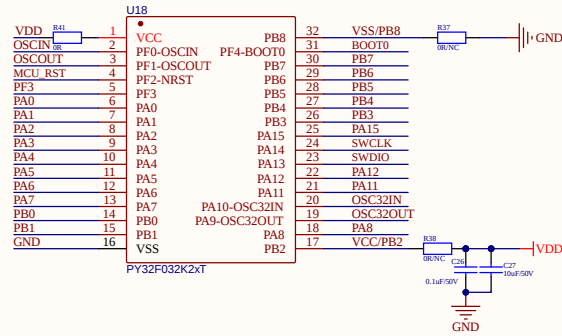


Debug Connector

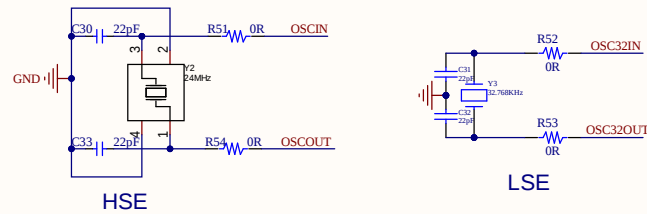
Diagram illustrating the Debug Connector (CN5) connections:

- Pin 1:** SWDIO, connected to R55 (100R) and TMS.
- Pin 2:** SWCLK, connected to R56 (100R) and TCK.
- Pin 3:** MCU_RST, connected to R57 (100R) and RESET.
- Pin 4:** Connected to TVDD.
- Pin 5:** Connected to GND.

Header 5

[illegible]

The image shows two schematic diagrams of microcontroller oscillators. The left diagram, labeled 'HSE', shows a high-speed external oscillator circuit. It includes a 22pF capacitor (C30) connected to the OSCIN pin, a 22pF capacitor (C33) connected to the OSCOUT pin, and a 24MHz quartz crystal (X2) connected between the two pins. The circuit is powered by GND and VDD. The right diagram, labeled 'LSE', shows a low-speed external oscillator circuit. It includes a 22pF capacitor (C31) connected to the OSC32IN pin, a 22pF capacitor (C32) connected to the OSC32OUT pin, and a 32.768kHz quartz crystal (Y3) connected between the two pins. The circuit is powered by GND and VDD.



Led

The diagram shows a circuit for an LED. A red arrow labeled 'TVDD' points to the anode of a blue LED symbol. The LED is labeled 'LED_PA11'. The cathode of the LED is connected to a blue square component labeled 'R58 0002'. The other end of the resistor is connected to a pin labeled 'PA11'.



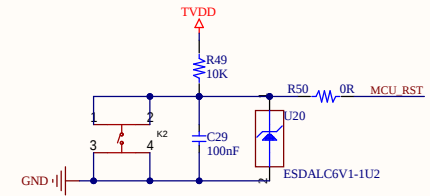
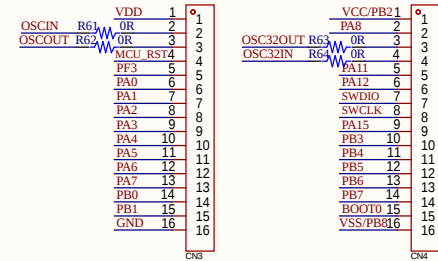
Extension PIN

Pin	Function
1	VDD
2	0R
3	0R
4	MCU_RST4
5	PF3
6	PA0
7	PA1
8	PA2
9	PA3
10	PA4
11	PA5
12	PA6
13	PA7
14	PB0
15	PB1
16	GND

CN3

Pin	Function
1	VCC/PB21
2	PA8
3	0R
4	0R
5	PA11
6	PA12
7	SWDIO
8	SWCLK
9	PA15
10	PB3
11	PB4
12	PB5
13	PB6
14	PB7
15	BOOT0
16	VSS/PB8

CN4



Title: PY32F032K2xT_START.SchDoc	
Project: PY32F032K2xT_START.PrjPcb	
Size: A3	Date: 202
Sheet: 2 of 2	Revision: V2.0

