

## ESP32-PICO-KIT - Pin Descriptions

## J3 Header

J3 Header					
No.	Name	Туре	Function		
1	FLASH_CS (FCS)	1/0	GPIO16, HS1_DATA4 (See 1), U2RXD, EMAC_CLK_OUT		
2	FLASH_SD0 (FSD0)	1/0	GPIO17, HS1_DATA5 (See 1), U2TXD, EMAC_CLK_OUT_180		
3	FLASH_SD2 (FSD2)	1/0	GPIO11, SD_CMD, SPICSO, HS1_CMD (See 1), U1RTS		
4	SENSOR_VP (FSVP)	I	GPIO36, ADC1_CH0, RTC_GPIO0		
5	SENSOR_VN (FSVN)	I	GPIO39, ADC1_CH3, RTC_GPIO3		
6	1025	1/0	GPIO25, DAC_1, ADC2_CH8, RTC_GPIO6, EMAC_RXD0		
7	1026	I/O	GPIO26, DAC_2, ADC2_CH9, RTC_GPIO7, EMAC_RXD1		
8	IO32	I/O	32K_XP (See 2a), ADC1_CH4, TOUCH9, RTC_GPIO9		
9	IO33	1/0	32K_XN (See 2b) , ADC1_CH5, TOUCH8, RTC_GPIO8		
10	1027	1/0	GPIO27, ADC2_CH7, TOUCH7, RTC_GPIO17 EMAC_RX_DV		
11	1014	I/O	ADC2_CH6, TOUCH6, RTC_GPIO16, MTMS, HSPICLK, HS2_CLK, SD_CLK, EMAC_TXD2		
12	IO12	I/O	ADC2_CH5, TOUCH5, RTC_GPIO15, MTDI (See 4) , HSPIQ, HS2_DATA2, SD_DATA2, EMAC_TXD3		
13	1013	I/O	ADC2_CH4, TOUCH4, RTC_GPIO14, MTCK, HSPID, HS2_DATA3, SD_DATA3, EMAC_RX_ER		
14	1015	I/O	ADC2_CH3, TOUCH3, RTC_GPIO13, MTDO, HSPICS0 HS2_CMD, SD_CMD, EMAC_RXD3		
15	102	1/0	ADC2_CH2, TOUCH2, RTC_GPIO12, HSPIWP, HS2_DATA0, SD_DATA0		
16	104	1/0	ADC2_CH0, TOUCH0, RTC_GPIO10, HSPIHD, HS2_DATA1, SD_DATA1, EMAC_TX_ER		
17	100	1/0	ADC2_CH1, TOUCH1, RTC_GPIO11, CLK_OUT1 EMAC_TX_CLK		
18	VDD33 (3V3)	P	3.3V power supply		
19	GND	P	Ground		
20	EXT_5V (5V)	Р	5V power supply		

<sup>4.</sup> The operating voltage of ESP32-PICO-KIT's embedded SPI flash is 3.3V. Therefore, the strapping pin MTDI should hold bit zero during the module power-on reset. If connected, please make sure that this pin is not held up on reset.

3. This pin is connected to the pin of the USB bridge chip on the board.

## ESP32-PICO-D4



USB Header

## 12 Header

JZ neddel					
No.	Name	Туре	Function		
1	FLASH_SD1 (FSD1)	1/0	GPIO8, SD_DATA1, SPID, HS1_DATA1 (See 1), U2CTS		
2	FLASH_SD3 (FSD3)	1/0	GPIO7, SD_DATA0, SPIQ, HS1_DATA0 (See 1), U2RTS		
3	FLASH_CLK (FCLK)	1/0	GPIO6, SD_CLK, SPICLK, HS1_CLK (See 1), U1CTS		
4	IO21	1/0	GPIO21, VSPIHD, EMAC_TX_EN		
5	1022	1/0	GPIO22, VSPIWP, UORTS, EMAC_TXD1		
6	IO19	1/0	GPIO19, VSPIQ, U0CTS, EMAC_TXD0		
7	IO23	1/0	GPIO23, VSPID, HS1_STROBE		
8	IO18	1/0	GPIO18, VSPICLK, HS1_DATA7		
9	105	1/0	GPIO5, VSPICSO, HS1_DATA6, EMAC_RX_CLK		
10	1010	I/O	GPIO10, SD_DATA3, SPIWP, HS1_DATA3, U1TXD		
11	109	1/0	GPIO9, SD_DATA2, SPIHD, HS1_DATA2, U1RXD		
12	RXD0	1/0	GPIO3, U0RXD (See 3) , CLK_OUT2		
13	TXD0	1/0	GPIO1, U0TXD (See 3) , CLK_OUT3, EMAC_RXD2		
14	1035	1	ADC1_CH7, RTC_GPIO5		
15	1034	1	ADC1_CH6, RTC_GPIO4		
16	IO38	I	GPIO38, ADC1_CH2, RTC_GPIO2		
17	1037	I	GPIO37, ADC1_CH1, RTC_GPIO1		
18	EN	1	CHIP_PU		
19	GND	Р	Ground		
20	VDD33 (3V3)	Р	3.3V power supply		

<sup>1.</sup> This pin is connected to the flash pin of ESP32-PICO-D4.

<sup>2. 32.768</sup> kHz crystal oscillator: a) input b) output