

XIAO ESP32S3 Sense expansion board PINOUT

Pinout reference · ESP32-S3

GPIO

safe

use with care

serial, USB

PWM capable

ADC

touch

RTC

32 kHz crystal

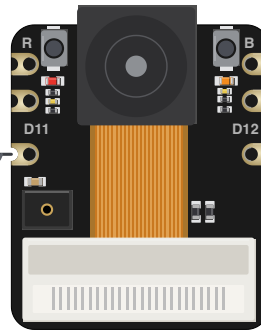
SPI

JTAG

on-board feature

Arduino name

Camera (DVP, OV3660)					
TOUCH10	ADC1_CH9	FSPICS0	RTC_GPIO10	CAM_XMCLK	GPIO10 10
TOUCH13	ADC2_CH2	FSPIQ	RTC_GPIO13	CAM_PCLK	GPIO13 13
		FSPIWP	CAM_VSYNC	GPIO38	38
		SPICLK_P	CAM_HREF	GPIO47	47
		MTD0	CAM_SIOD	GPIO40	40
		MTCK	CAM_SIOC	GPIO39	39
		MTMS	PDM_CLK	D11	GPIO42 42
microSD (SPI, slot underneath)					
		RTC_GPIO21	SD_CS	GPIO21	21
TOUCH7	ADC1_CH6	RTC_GPIO7	SD_SCK	GPIO7	7
TOUCH8	ADC1_CH7	RTC_GPIO8	SD_MISO	GPIO8	8
TOUCH9	ADC1_CH8	FSPICHD	RTC_GPIO9	SD_MOSI	GPIO9 9



Camera data (Y2-Y9)

15	GPIO15	CAM_Y2	RTC_GPIO15	XTAL_32K_P	ADC2_CH4
17	GPIO17	CAM_Y3	RTC_GPIO17	ADC2_CH6	
18	GPIO18	CAM_Y4	RTC_GPIO18	ADC2_CH7	
16	GPIO16	CAM_Y5	RTC_GPIO16	XTAL_32K_N	ADC2_CH5
14	GPIO14	CAM_Y6	RTC_GPIO14	FSPIWP	ADC2_CH3 TOUCH14
12	GPIO12	CAM_Y7	RTC_GPIO12	FSPICLK	ADC2_CH1 TOUCH12
11	GPIO11	CAM_Y8	RTC_GPIO11	FSPID	ADC2_CH0 TOUCH11
48	GPIO48	CAM_Y9	SPICLK_N		
41	GPIO41	D12	PDM_DATA	MTDI	

PDM microphone

42	GPIO42	PDM_CLK	MTMS
41	GPIO41	PDM_DATA	MTDI

Pin functions from the ESP32-S3 Series Datasheet v2.2. Strapping pins per Espressif.

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