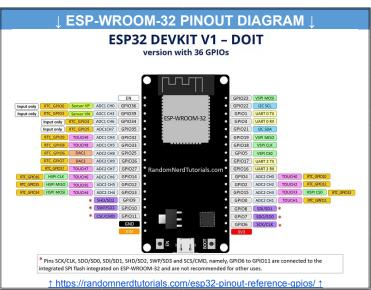
bin find	Tel marayar

for ESP-32-WROOM-32E



## https://github.com/David-Nahorniak/ESP32-pin-finder-tool

	Notes of my p		PIN				BASIC									BUS PROTOCOLS					
Jse for	Connect to	Notes	GPIO	Numb r	e Name	Туре	priority rating	Input	ADC	Output	Strapping Pins	Capacitive touch	DAC	RTC	Attached	I2C (standard)	UART	SPI (VSPI and HSPI)	JTAG	SD/SDIG C Ho	
			0	25	1000	GPIO	0	No	ADC2_CH1			T1		RTC_GPIO11							
			1	35	TXD0	GPI0	0	No	No	Yes!!	debug output at boot						UARTO TX (U0TXD)				
			2	24	1002	GPIO		Yes!!	ADC2_CH2		meaning or left for maching	T2		RTC_GPIO12	LED on-board			HSPI QUADWP		HS2_DAT	
			3	34	RXD0	GPIO	0	Yes	No	No	HIGH at boot						UARTO RX (U0RXD)	LIODI OLIABUB		1100 DA	
	+		4	26	IO04 IO05	GPIO GPIO	<u>4</u> 1	Yes	ADC2_CH0	Yes!!	outputs PWM signal at boot (but Andreas Spie	TO	hl\	RTC_GPIO10				HSPI QUADHD	_	HS2_DA	
			5 6	29	SCK/CLK*	Unusable	0	No	No No	No	connected to the integrated SPI flash	ss nad no pro	biems)				U1CTS	VSPICS (SS) SPICLK		HS1_DA	
			7	21	SDO/SD0*	Unusable	0	No	No	No	connected to the integrated SPI flash						U2RTS	SPIQ		HS1_CL	
			ν ο	22	SDI/SD1*	Unusable	0	No	No	No	connected to the integrated SPI flash							SPID		HS1_DA	
			9	17	SHD/SD2*	Unusable	0	No	No	No	connected to the integrated SPI flash							SPIWP		HS1 DA	
			10	18	SWP/SD3*	Unusable	0	No	No	No	connected to the integrated SPI flash						U1TXD	SPIWP		HS1_DA	
			11	19	SCS/CMD*	Unusable	0	No	No	No	connected to the integrated SPI flash						U1RTS	SPICSO		HS1_CN	
			12	14	1012	GPIO		Yes!!	ADC2 CH5			T5		RTC GPIO15				HSPIMISO (SDO)	MTDI	HS2 DA	
			13	16	1013	GPIO	4	Yes	ADC2 CH4			T4		RTC GPIO14				HSPIMOSI (SDA,DIN)	МТСК	HS2 DA	
			14	13	IO14	GPIO	2	Yes	ADC2 CH6	Yes!!	outputs PWM signal at boot	Т6		RTC GPIO16				HSPISCLK (CLK, SCL, SCK	) MTMS	HS2_CL	
			15	23	IO15	GPIO	0	Yes!!	ADC2_CH3	Yes!!	if low then no boot consol log, outputs PWM s	i T3		RTC_GPIO13				HSPICS (SS)	MTDO	HS2_CI	
			16	27	RX2	GPIO (no V	3	Yes	No	Yes	Not available on WROVER						UART2 RX (U2RXD)	, ,		HS1_DA	
			17	28	TX2	GPIO (no V	3	Yes	No	Yes	Not available on WROVER						UART2 TX (U2TXD)			HS1_D/	
			18	30	IO18	GPIO	3	Yes	No	Yes								VSPISCLK (CLK, SCL, SCK)	)	HS1_D/	
			19	31	IO19	GPIO	3	Yes	No	Yes							(U0CTS)	VSPIMISO (SDO)			
			21	33	IO21	GPIO	3	Yes	No	Yes						I2C SDA		VSPI QUADHD			
			22	36	1022	GPIO	3	Yes	No	Yes						<u>I2CSCL</u>	(U0RTS)	VSPI QUADWP			
			23	37	1023	GPI0	3	Yes	No	Yes								VSPIMOSI (SDA,DIN)		HS1_ST	
			25	10	1025	GPIO	4	Yes	ADC2_CH8					RTC_GPIO6							
			26	11	1026	GPIO	4	Yes	ADC2_CH9				DAC2	RTC_GPIO7		I2C alter. SCL					
			27	12	1027	GPIO .		Yes	ADC2_CH7			T7		RTC_GPIO17		I2C alter. SDA					
			32	8	1032	GPIO OPIO	5	Yes	ADC1_CH4			T9		RTC_GPIO9							
			33	9	IO33	GPIO GPIO		Yes!	ADC1_CH5 ADC1_CH6		No Setemate all tre	18		RTC_GPIO8							
			34 35	7	1034	GPIO		Yes!	ADC1_CH6		No internal pullup  No internal pullup			RTC_GPIO4 RTC_GPIO5							
			36	4	_	GPIO	2	Yes!!	ADC1_CH7		No internal pullup			RTC_GPIOS	Hall concer				+		
			39	5	SENSOR VN		2	Yes!!	ADC1_CH0		No internal pullup			RTC_GPIO0	Hall sensor Hall sensor						
			33	1	GND	Power		165!!	ADC1_CH3	INU	No internal pullup			KIC_GFIOS	I Idii Serisui						
			+	2	3V3	Power		+		+											
	+			3	EN	Power		<u> </u>													
				15	GND	Power		<b>†</b>													
				32	NC	Power															
				38	GND	Power															
				39	GND	Power															
						<u> </u>	<b>1</b>		<b>1</b>			<b>1</b>		1	<b>1</b>	<b>1</b>	J	<b></b>	1		



<u> </u>	↓ Explanation ↓													
GPIO	5- the best of al	Yes	ADC1_*	Yes	from official documentation	T*	DAC_*	RTC_*		I2C *	UART0 *	VSPI *	MT*	HS1_*
	4- awesome	Yes!		Yes!	from the table by Andreas Spiess					I2C alternatively *	UART1 *	HSPI *		HS2_*
GPIO (no	3- yeah, but	Yes!!	ADC2_*	Yes!!	from randomnerdtutorials.com						UART2 *			
_		No	No	No								SPI*		
11	1- bad bad bad													
	0- no way													
	↓ what it's for ↓													
	My rating how difficult the pin is to work with. Based on data from the "basic use" chapter.		HOW TO: Reads Analog Values	HOW TO: PWM output (Analog Output)	Explains why there are exclamation marks next to input and output.  All pins except those marked have internal pullup.	HOW TO: Capacitive Touch Sensor Pins	WHAT IS: Digital To Analog convertor	HOW TO: External Wake Up from Deep Sleep		HOW TO: I2C (Inter Integrated Circuit)  HOW TO: I2S (Inter-IC Sound)	WHAT IS: UART	WHAT IS: SPI (Serial Peripheral Interface)	(PlatformIO debugging) HOW TO: Inline Debugging	
	↓ NOTES ↓													
			randomnerd tutorials bad data! <u>ADC2</u>							standard SW changeable pin		HSPI [spi2] VSPI [spi3] standard libraries SPI [spi0, spi1] flash only		