	ADC1_0* -	GP1036	Н	5_VP	H	36	H
	ADCI_3* -	GP1039	H	5_VN	Ή	39	ŀ
			Ī	601009	П	RST	H
		ADCI_6*	Н	601034	Н	34	⊩
		ADCI_7*	Н	601035	Н	35	⊩
	ADCI_4* -	GP1032	Н	XTAL32	Н	32	H
	ADC1_5* -	GP1033	H	XTAL33	Н	33	⊩
	DAC2	ADC2_8*	H	601025	Н	25	H
	TOUCH6	ADC2_6*	Н	GP1014	Н	14	H
	TPUCH4	ADC2_4	Н	GP1013	Н	13	⊩
TOUCH2	HSPI_WP -	ADC2_2	Н	GP1002	H	02	H
						GND	ŀ
					1	SV	_

Power

ESP32 VCC range: 2.2V-3.6V

VBAT: direct to battery (and charger)

VUSB: direct to USB (5V)

VCC: Output of regulator 3.3V/600mA Up to 250mA during RF transmissions

Wireless

Wifi: 802.11 b/g/n/e/i

WPA/WPA2/WPA2-Enterprise/SPS Bluetooth: Bluetooth 4.2/BLE

ESP32

Dual-core Xtensa 32-bit LX6 Up to 240MHz 520kB internal SRAM 4MB external flash

Multiplexed I/Os allow up to

- 18 ADC channels 3 SPI interfaces
- 3 SPI interfaces 3 UART interfaces
- 2 I2C interfaces
- 2 I25 interfaces 16 LED PWM outputs
- 2 DACs

10 Capacitive Touch Inputs



Wifi+Buletooth Board TTGO-LoRa T-Beam

ADC Preamp

GPIO pins 36,67,38, and 39 are able to be used as a low noise analog pre-amplifier

Other*

CLX3

CLX2

GPI023

GPI04

CLXI

GP1001

GP1003

V_SPI_D

ADC2_O

GP100

GP1022

UO EXD

UO_RXD

TOUCHO

TOUCHI

V_SPI_WP - OLED-SDA

V_SPI_HD - OLED-SCL

HSPI_HD

ADC2 1

Hall Sensor Temp sensor (-40C to 125C) SD/SDIO/MMC Host Controller CAN Bus

"On datasheet, but may not be supported yet