WIFI LoRa 32 V2 Pinout Diagram

Notes:

*GPIO input only
*ADC preamplifier
GPIOs are 3.3V tolerant only

Legend

- GND
- Power
- Control
- Touch Pin
- GPIO Port pin
- Analog Pin
- DAC
- Serial SPI I2C
- Physical Pin
- On-board hardware Pin
- Button
- Touch1

Left side pins

			GND	
			5V	
			Vext	
			Vext	
U0_RXD	GPIO3	CLX2	RX	
U0_TXD	GPIO1	CLX3	TX	
			RST	
	ADC2_1	GPIO0	CLK1	0
U0_RTS	V_SPI_WP	GPIO22	SCL	22
LoRa_MISO →	U0_CTS	V_SPI_Q	GPIO19	19
		V_SPI_D	GPIO23	23
LoRa_CS →	V_SPI_CLK	GPIO18	18	
LoRa_SCK →	V_SPI_CS0	GPIO5	5	
OLED_SCL →	Touch3	HSPI_CS0	ADC2_3	GPIO15	15
	Touch2	HSPI_WP	ADC2_2	GPIO2	2
OLED_SDA →	Touch0	HSPI_HD	ADC2_0	GPIO4	4
		U2_TXD	GPIO17	17	
OLED_RST →	U2_RXD	GPIO16	16	

Right side pins

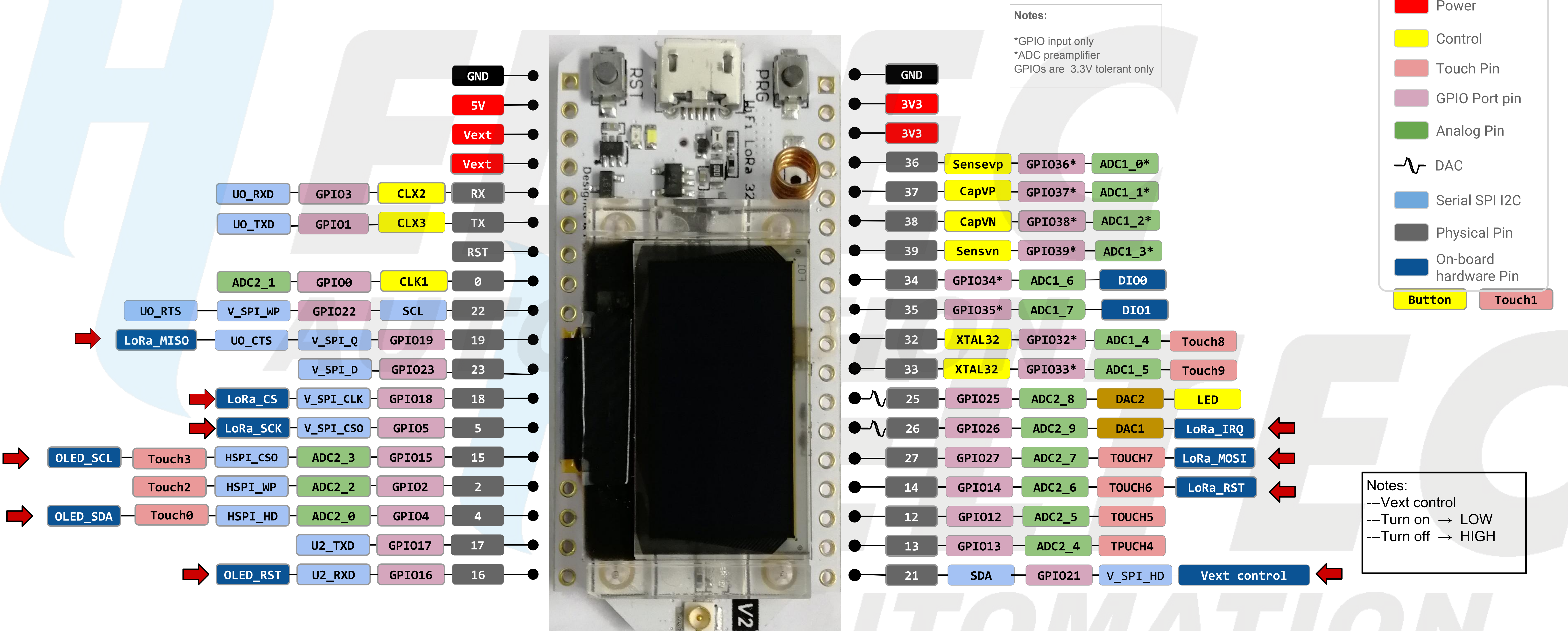|				
GND				
3V3				
3V3				
36	Sensevp	GPIO36*	ADC1_0*	
37	CapVP	GPIO37*	ADC1_1*	
38	CapVN	GPIO38*	ADC1_2*	
39	Sensvn	GPIO39*	ADC1_3*	
34	GPIO34*	ADC1_6	DIO0	
35	GPIO35*	ADC1_7	DIO1	
32	XTAL32	GPIO32*	ADC1_4	Touch8
33	XTAL32	GPIO33*	ADC1_5	Touch9
25	GPIO25	ADC2_8	DAC2	LED
26	GPIO26	ADC2_9	DAC1	LoRa_IRQ ←
27	GPIO27	ADC2_7	TOUCH7	LoRa_MOSI ←
14	GPIO14	ADC2_6	TOUCH6	LoRa_RST ←
12	GPIO12	ADC2_5	TOUCH5	
13	GPIO13	ADC2_4	TPUCH4	
21	SDA	GPIO21	V_SPI_HD	Vext control ←

Notes:

---Vext control
---Turn on → LOW
---Turn off → HIGH

Pins with this arrow are used by on-board OLED or LoRa, they must not be used for other purpose unless you know what you are doing!