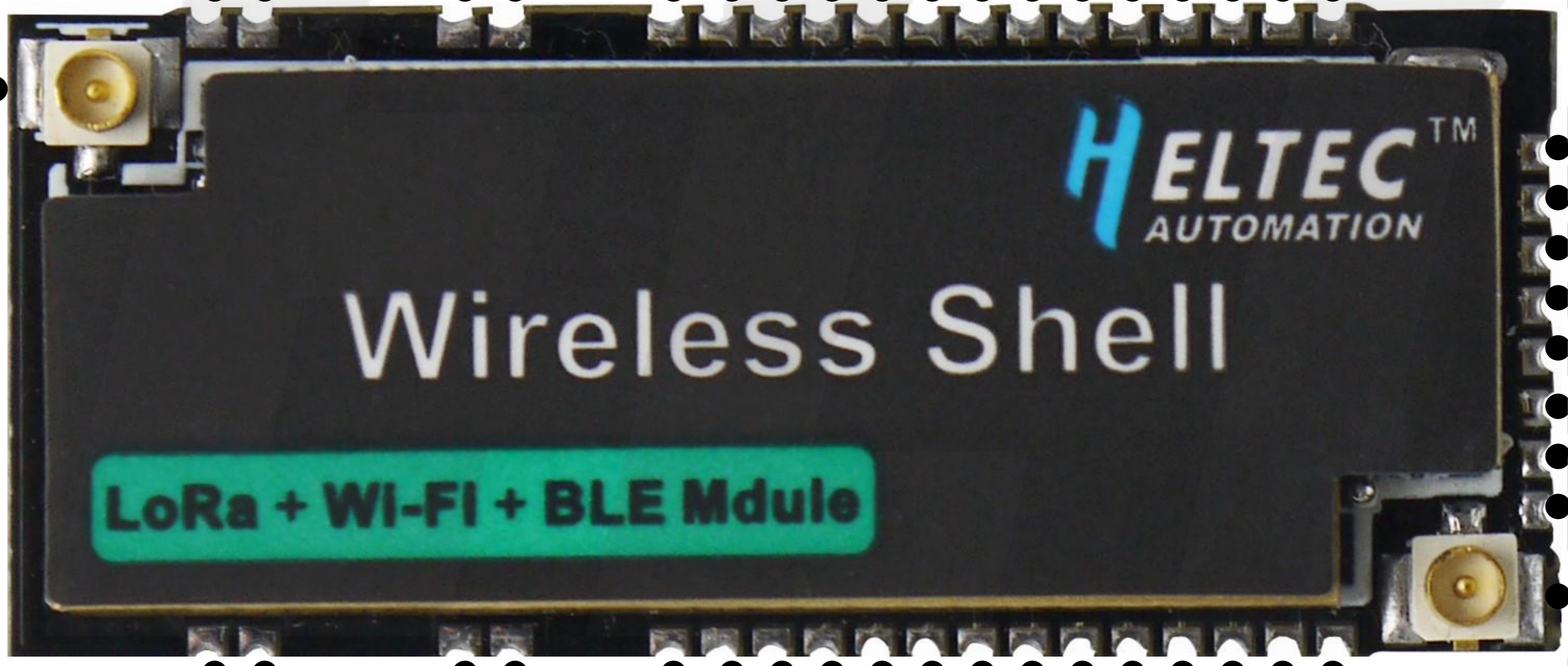


Wireless Shell Pinout Diagram

➔ 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!

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

➔ Flash_CS	U2_RXD	GPIO16	16	
➔ Flash_SD0	U2_TXD	GPIO17	17	
	U1_RXD	GPIO9	9	
	U1_TXD	GPIO10	10	
➔ LoRa_MOSI	TOUCH7	ADC2_7	GPIO27	27
		GND		
		GND		
		GND		
		GND		



4	GPIO4	ADC2_0	HSPI_HD	TOUCH0
0	GPIO0	ADC2_1	TOUCH1	PRG_BUTTON
2	GPIO2	ADC2_2	HSPI_WP	TOUCH2
15	GPIO15	ADC2_3	HSPI_CS0	TOUCH3
13	GPIO13	ADC2_4	TOUCH4	Power Detection
12	GPIO12	ADC2_5	TOUCH5	
26	GPIO26	ADC2_9	DAC1	LoRa_DIO0
25	GPIO25	ADC2_8	DAC2	LED
33	XTAL32	GPIO33	ADC1_5	TOUCH9

32	XTAL32	GPIO32	ADC1_4	TOUCH8
35	GPIO35*	ADC1_7	LoRa_DIO1	
34	GPIO34*	ADC1_6	LoRa_DIO2	
	RST			
39	GPIO39*	ADC1_3*		
38	GPIO38*	ADC1_2*		
37	GPIO37*	ADC1_1*		
	ANT			

Notes:

- Vext : External power supply (3.3V), control the switch of Vext through GPIO(LOW-ON,HIGH-OFF)
- ADC preamplifier GPIOs are 3.3V tolerant only

	Vext			
	Vext			
	3.3V			
	3.3V			
➔ LoRa_RST	TOUCH6	ADC2_6	GPIO14	14
	➔ Flash_SD2		GPIO11	11
	➔ Flash_CLK		GPIO6	6
	➔ Flash_SD3		GPIO7	7
	➔ Flash_SD1		GPIO8	8

36	GPIO36*	ADC1_0*		
21	SDA	GPIO21	V_SPI_HD	Vext control
	TX	GPIO1	U0_TXD	
	RX	GPIO3	U0_RXD	
22	SCL	GPIO22	V_SPI_WP	U0_RTS
19	GPIO19	V_SPI_Q	U0_CTS	LoRa_MISO
23	GPIO23	V_SPI_D		
18	GPIO18	V_SPI_CLK	LoRa_CS	
5	GPIO5	V_SPI_CS0	LoRa_SCK	

WiFi Antenna

LoRa Antenna