

## Hardware Specifications

Chipset	ESPRESSIF-ESP32 (Wi-Fi & Bluetooth); Xensa® single-/dual-core 32-bit LX6 microprocessor
Module	SX1276
FLASH	QSPI flash 4MB
SRAM	520 kB SRAM
Button	BOOT,REST
USB to TTL	CP2104
Modular interface	UART,SPI,SDIO,I2C,PWM,I2S,ADC,DAC Sensor
On-board clock	40MHz crystal oscillator
Working voltage	About 2.7V-3.6V
Sleep current	About 600uA
Working temperature range	-40°C ~ +85°C
Screen	OLED 0.96 Inch
Weight	6.5g

## Software specification

Wi-Fi Mode	Station/SoftAP/SoftAP+Station/P2P
Security mechanism	WPA/WPA2/WPA2-Enterprise/WPS
Encryption Type	AES/RSA/ECC/SHA
Firmware upgrade	UART download/OTA ( Through network download and write firmware )
Software Development	Support cloud server development /SDK firmware development
Networking protocol	IPv4、 IPv6、 SSL、 TCP/UDP/HTTP/FTI
User Configuration	AT + Instruction set, cloud server, android
OS	FreeRTOS

## Comparison between Lora V1.3 and Lora V1.0

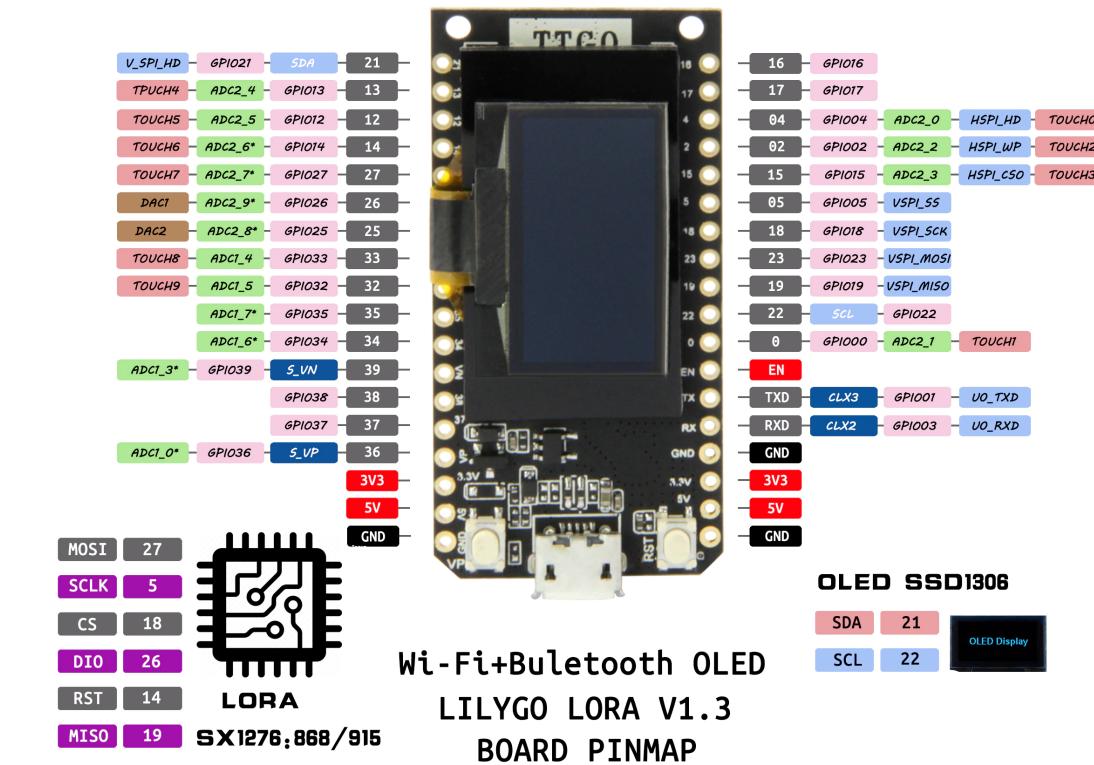
1. Product low power design
2. Optimize LORA RF circuit
3. Add battery voltage detection Pin IO35

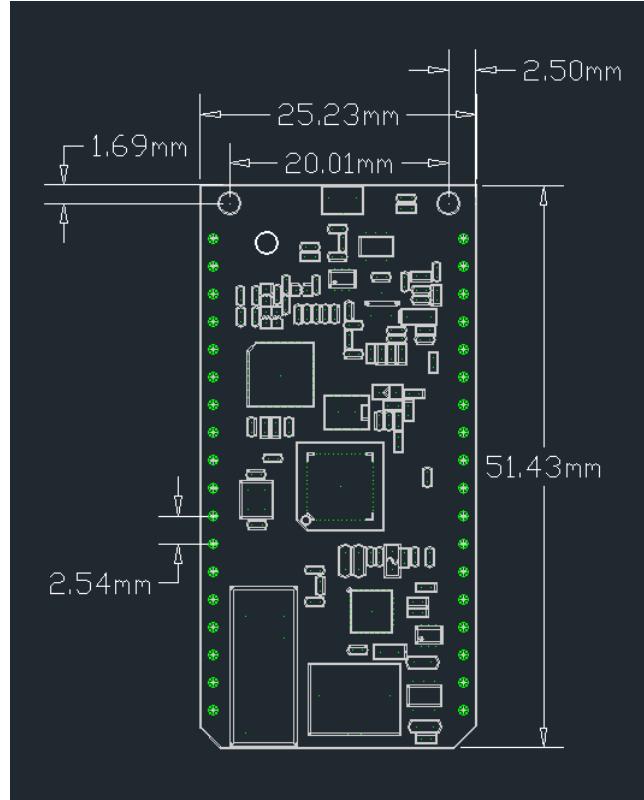
## More Information

<https://github.com/Xinyuan-LilyGO/LilyGo-Lof>

<https://github.com/LilyGO/TTGO-LORA32-V2.0/tree/LilyGO-V1.3>

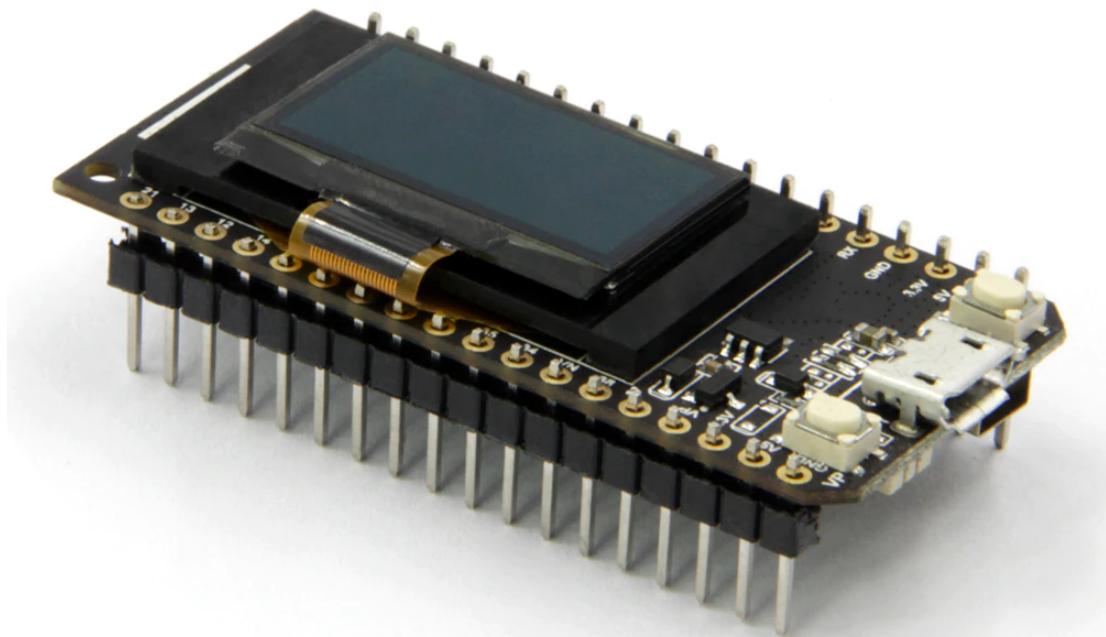
## Product Pin

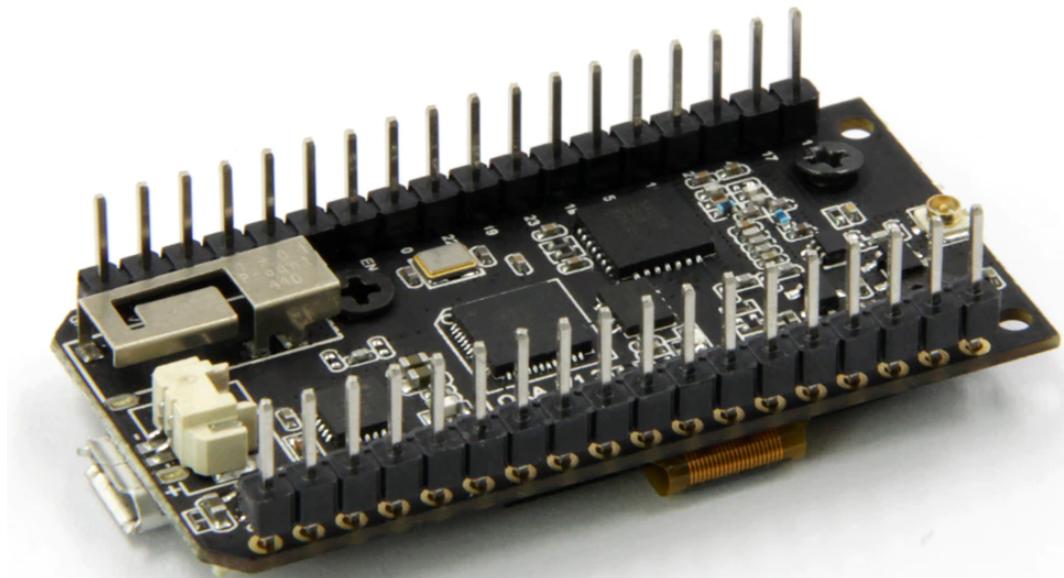




### Product Detail

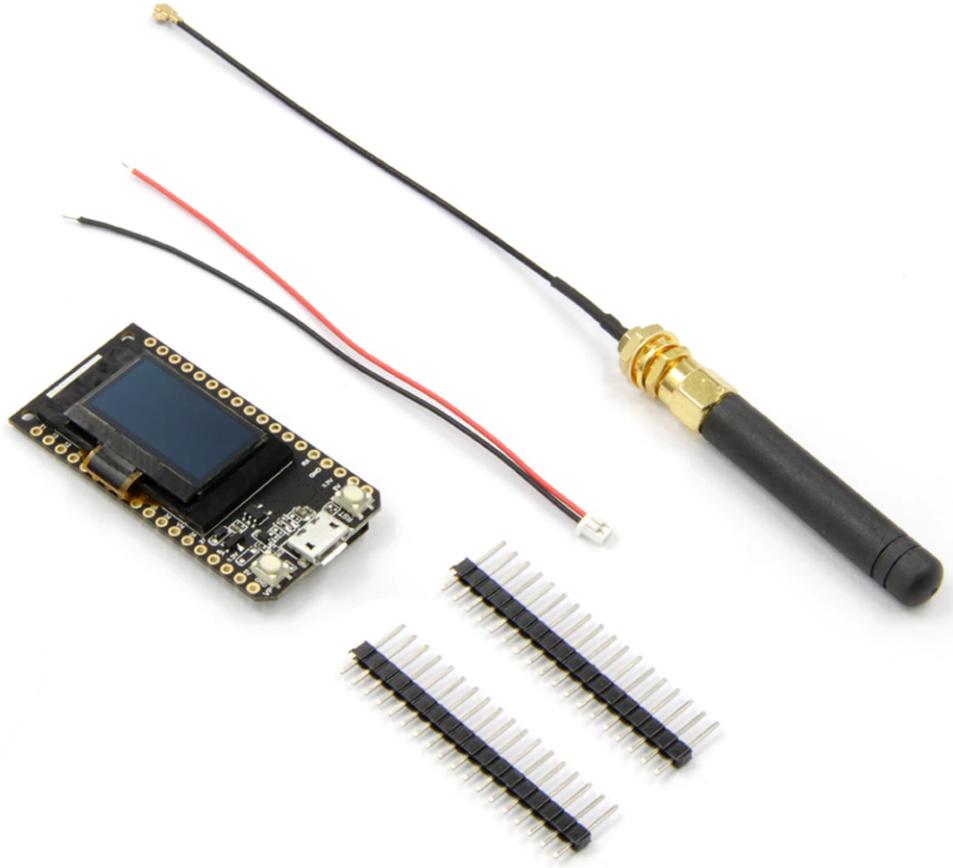
**Note: No welding by default**





### Shipping List

- 1 X Lora V1.3(868/915Mhz)
- 1 X Power Cable

A photograph of a modern electronic manufacturing facility (maker factory) with several workers in white lab coats operating large industrial machinery. The LILYGO logo and "MAKER FACTORY" text are overlaid on the top right of the image.

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The minimum order quantity of the LILYGO® maker factory PCBA is 1.

- SMT processing
- No minimum quantity limit
- Hardware solution design service