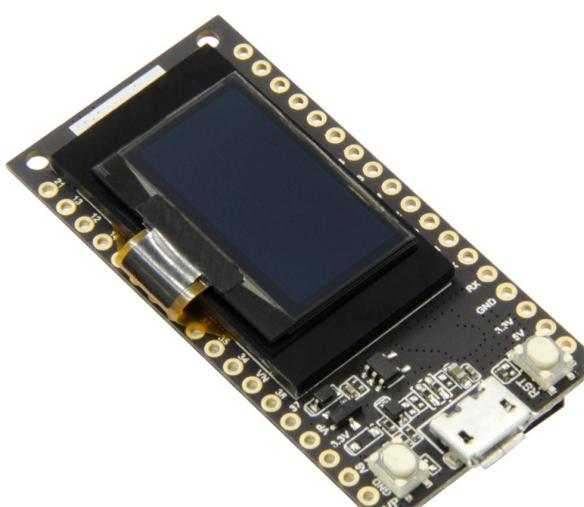


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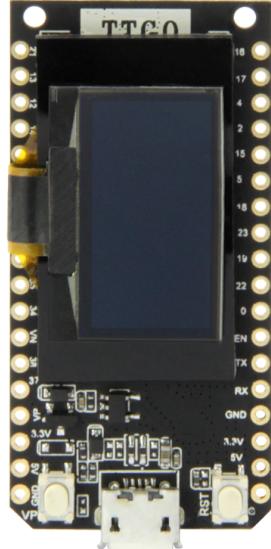
**LILYGO® TTGO LORA V1.3
868Mhz ESP32 Chip SX1276
Module 0.96 Inch OLED Screen
WIFI And Bluetooth Development
Board**

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OVERVIEW

LILYGO® TTGO LORA V1.3 868Mhz ESP32 Chip

SX1276 Module 0.96 Inch OLED Screen WIFI And Bluetooth Development Board



Hardware Specifications	
Chipset	ESPRESSIF-ESP32 (Wi-Fi & Bluetooth)240MHz Xtensa® 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,Cap 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
SizeWeight	About 53.07mm*25.32mm*7.5mm
Weight	6.5g
Power Supply	
Power Supply Input	USB 5V/1A
Charging current	500mA
Battery Input	3.7-4.2V
Charge IC	
JST Connector	2Pin 1.25mm
USB	

Wi-Fi	
Standard	FCC/CE-RED/IC/TELEC/KCC/SRRC/NCC(esp32 chip)
Protocol	802.11 b/g/n(802.11n , speed up to150Mbps)A-MPDU and A-MSDU polymerization , support 0.4μS Protection interval
Frequency range	2.4GHz~2.5GHz(2400M~2483.5M)
Transmit Power	22dBm
Communication distance	300m
Bluetooth	
Protocol	Meet bluetooth v4.2BR/EDR and BLE standard
Radio frequency	With -97dBm sensitivity NZIF receiver Class-1,Class-2&Class-3 emitter AFH
Audio frequency	CVSD&SBC audio frequency
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/host to download and write firmware)
Software Development	Support cloud server development /SDK for user firmware development
Networking protocol	IPv4、 IPv6、 SSL、 TCP/UDP/HTTP/FTP/MQTT
User Configuration	AT + Instruction set, cloud server, android/iOSapp
OS	FreeRTOS

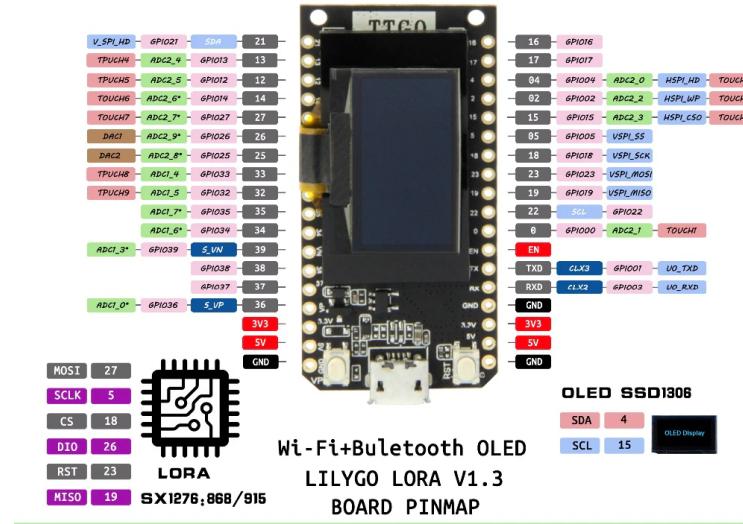
Comparison between Lora V1.3 and Lora V1.0:

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

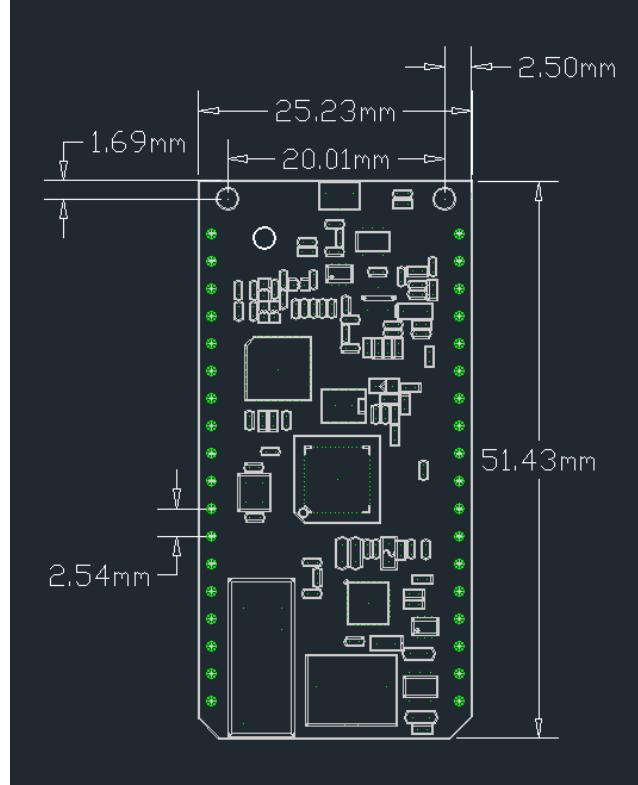
More Information

<https://github.com/LilyGO/TTGO-LORA32-V2.0/tree/LilyGO-V1.3-868>

Product Pin

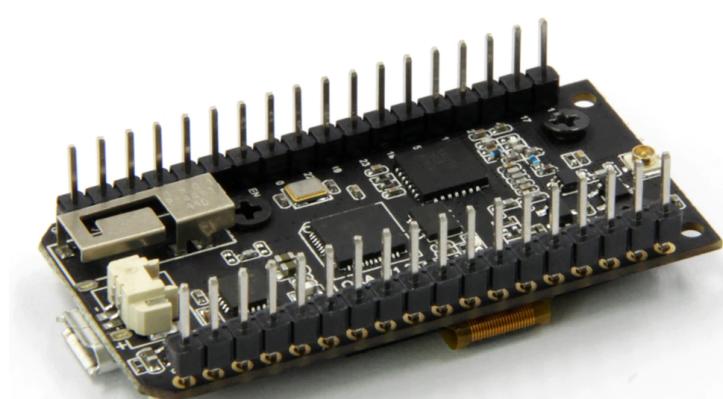
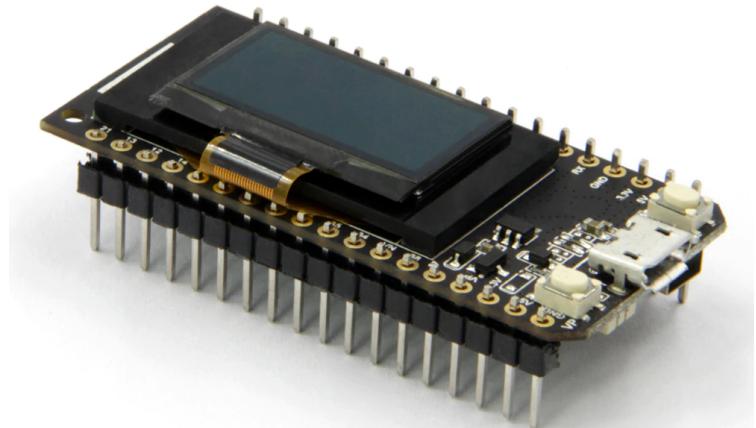


Product Size



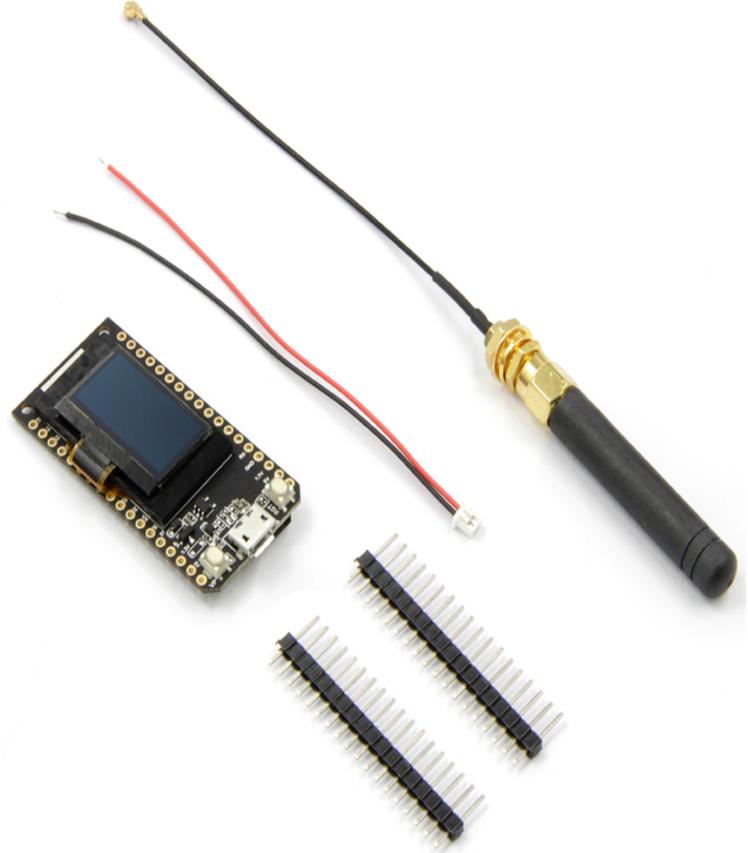
Product Detail

Note: Product does not have solder pins



Shipping List

- 1 X Lora V1.3
- 1 X Power cable
- 2 X Pin
- 1 X Antenna



The image shows a modern electronic manufacturing facility (maker factory) with several workers in white lab coats and hats operating machinery. The LILYGO logo is prominently displayed in the bottom left and top right corners. A blue banner across the middle contains the text: "The minimum order quantity of the LILYGO® maker factory PCBA is 1." Below the banner, three icons represent different services: "SMT processing" (two stick figures shaking hands), "No minimum quantity limit" (a stick figure with a large red X over it), and "Hardware solution design service" (a stick figure with a checkmark in a box).

LILYGO®
MAKER FACTORY

LILYGO®

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

SMT processing

No minimum quantity limit

Hardware solution design service



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