

S3 Pro V1.0.0 - LOLIN WIFI BLE IOT Board

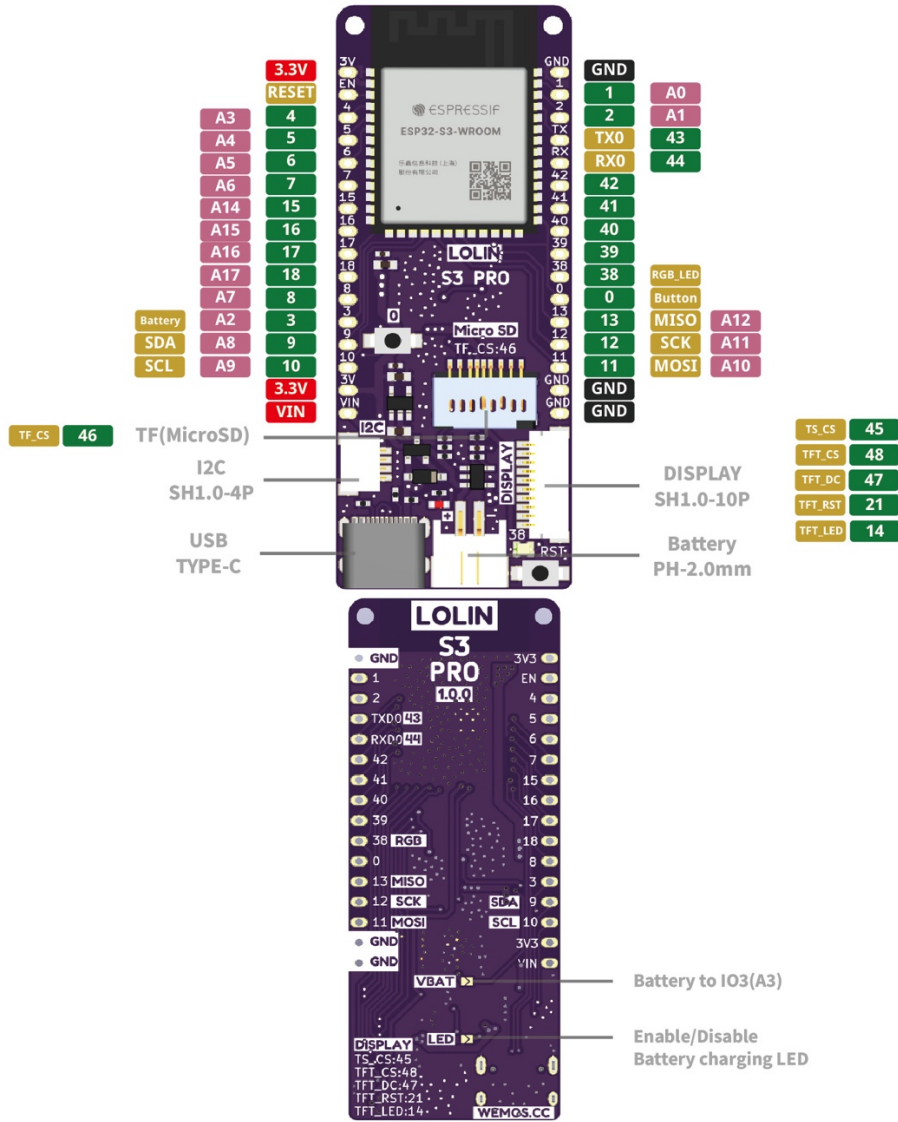


Features:

The S3 Pro V1.0.0 LOLIN WiFi BLE IoT Board is built around the ESP32-S3-WROOM-1 module and integrates 2.4GHz WiFi and Bluetooth 5 BLE connectivity with 16MB Quad SPI Flash and 8MB Octal SPI PSRAM for advanced IoT and embedded applications. It provides 25 digital IO pins, dedicated LOLIN I2C and LOLIN Display ports supporting TFT and EPD displays, a MicroSD TF card slot for data storage, and a battery port with 500mA charging for portable designs. Supporting ADC, DAC, I2C, SPI, UART and USB OTG interfaces, and compatible with MicroPython, Arduino and ESP-IDF, it is designed for wireless communication, smart devices, data logging and display based IoT systems.

Specifications	
Product Name	S3 Pro V1.0.0 LOLIN WiFi BLE IoT Board
Module	ESP32-S3-WROOM-1
WiFi	2.4GHz
Bluetooth	Bluetooth 5 BLE
Operating Voltage	3.3V
Clock Speed	240MHz
Flash Memory	16MB Quad SPI
PSRAM	8MB Octal SPI
Digital I O Pins	25
I2C Port	1x LOLIN I2C Port
Display Port	1x LOLIN Display Port TFT EPD
Storage	MicroSD TF Card Slot
Battery Support	Battery Port with 500mA Charging
Interfaces	ADC, DAC, I2C, SPI, UART, USB OTG
Default Firmware	MicroPython
Software Compatibility	MicroPython, Arduino, ESP-IDF
Dimensions	65.3 x 25.4 mm
Weight	7.2 g
Usage	IoT development, wireless communication, data logging, display projects

Pinouts:



Product Dimensions:

