

T-Micro32 Plus

ESP32 Development Board Wireless Compatible Module



T-Micro32 Plus Introduction

- The T-Micro32 Plus version is a continuation of another version based on the T-Micro32 module version. The micro form factor of the T-Micro32 module.
- The white ceramic antenna is replaced by a stronger signal **RED C3 ceramic Antenna**, and GPIO pins are added to replace the reserved pins (see the comparison chart for details)
- Flash has been increased to 8MB, and 2MB PSRAM has been added (due to the addition of PSRAM and some pins are used, if you need to replace it, please pay attention to check whether the GPIO is used when using it), which is suitable for more application development scenarios.

Specifications

GENERAL	
Brand	LilyGO TTGO
Manufacturer model/SKU	H478
Features	Microcontroller
GENERAL PHYSICAL APPEARANCE	
Main color ?	Black
Weight [g] ?	1
Dimension X [mm] ?	19
Dimension Y [mm] ?	13
Mounting options ?	SMT
Form factor	Individual component
GENERAL ELECTRICAL PROPERTIES	
Minimum supply voltage [V DC]	3.3
Maximum supply voltage [V DC]	3.3
Minimum IO-pin input voltage [V] ?	3.3
Maximum IO-pin input voltage [V] ?	3.3
IO-pin output voltage [V]	3.3
Maximum IO-pin source current [mA] ?	20
Maximum IO-pin sink current [mA] ?	28
MCU/SOC	
Manufacturer	Espressif
Chip series	ESP32-PICO
Maximum clock frequency [MHz]	240
Number of cores	2
INTERNAL MEMORY	
SRAM [KB]	520
PSRAM [MB]	2
Flash memory [MB]	8
EEPROM type ?	Emulated
CONNECTORS	
Power supply connector(s)	Solder pin(s) (SMT)
IO-connector(s) ?	Solder pin(s) (SMT)
Pin distance [mm]	1.00
Wi-Fi/Bluetooth antenna connector ?	Built-in antenna IPEX MHF 1/uFL male (requires modification)
PACKAGE CONTENTS	
Package contents	1x TTGO T-Micro32 Plus

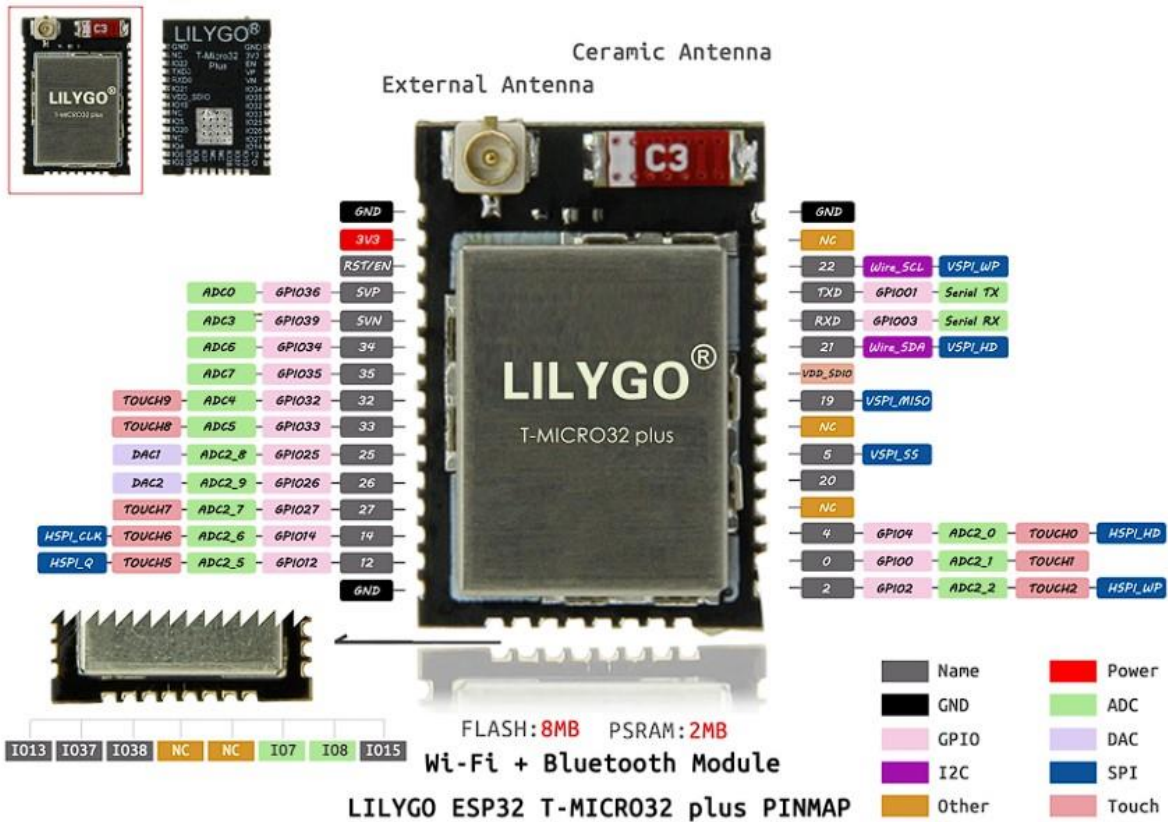


COMMUNICATION

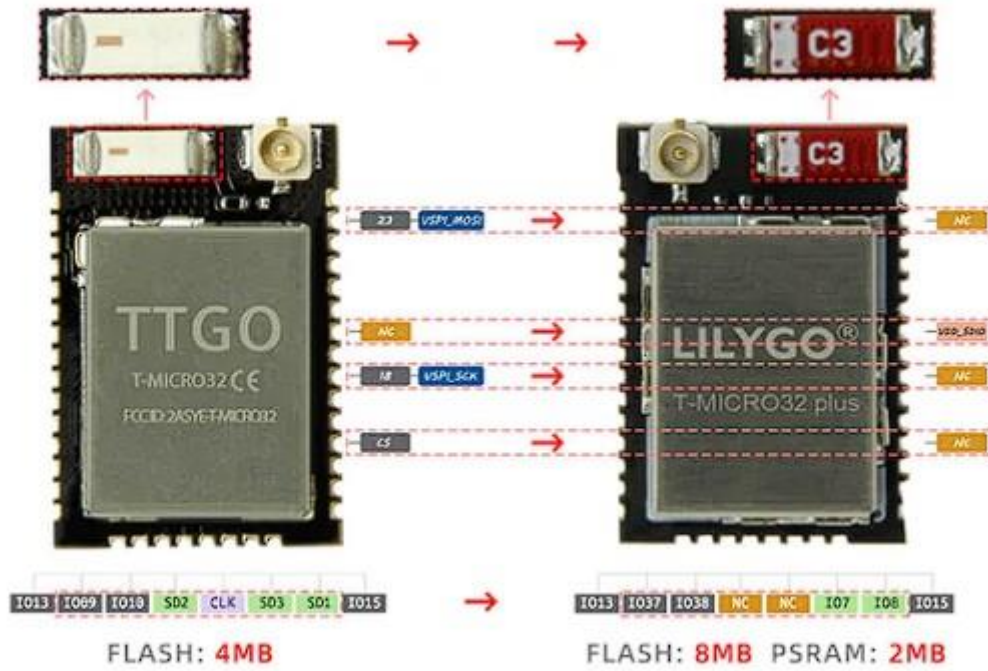
Hardware interface(s)	I2C I2S SPI UART PWM ADC DAC GPIO
Number of IO-pins	26
Maximum available hardware PWM channels	16
Maximum available analog input pins (ADC)	16
Maximum available analog output pins (DAC)	2
Maximum available hardware UART interfaces	3
Maximum available hardware I2C interfaces	2
Maximum available hardware SPI interfaces	2

WIRELESS COMMUNICATION

Interface(s)	Wi-Fi Bluetooth
Wi-Fi chip/SoC	ESP32-PICO
Wi-Fi frequency [GHz]	2.4
Bluetooth chip/SoC	ESP32-PICO
Bluetooth version	4.2
Supported Bluetooth standard(s)	LE Classic



Comparison Chart



FLASH: 4MB

FLASH: 8MB PSRAM: 2MB

T-Micro32 V2.0 VS T-Micro32 Plus