

## TTGO T-Display 4MB/16MB ESP32 WiFi And Bluetooth Module Development Board 1.14 Inch LCD Control Board Description:

<b>Specifications</b>	
Chipset	ESPRESSIF-ESP32 240MHz Xtensa® single-/dual-core 32-bit LX6 microprocessor
FLASH	QSPI flash 4MB /16MB
SRAM	520 kB SRAM
Button	Reset
USB to TTL	CP2104
Modular interface	UART、SPI、SDIO、I2C、LED PWM、TV PWM、I2S、IRGPIO、ADC、capacitor touch sensor、DACLNA pre-amplifier
Display	IPS ST7789V 1.14 Inch
Working voltage	2.7V-4.2V
Working current	About 67MA
Sleep current	About 350uA
Working temperature range	-40°C ~ +85°C
Size&Weight	51.52*25.04*8.54mm(7.81g)
<b>Power Supply Specifications</b>	
Power Supply	USB 5V/1A
Charging current	500mA
Battery	3.7V lithium battery
JST Connector	2Pin 1.25mm
USB	Type-C
<b>Wi-Fi</b>	
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
<b>Bluetooth</b>	
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

<b>Software specification</b>	
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