

LILYGO® TTGO T-Relay ESP32 Wireless Module DC 5V 4 Groups Relay Development Board 4MB Flash WiFi Bluetooth Remote Switch Control

Specifications

MCU	ESP32
FLASH	4MB
PS RAM	8MB
Bus Interfaces	UART, SPI, I2C, CAN, 12S, SDIO
Wireless	Wi-Fi 802.11 b/g/n
Bluetooth	BLE V4.2
Onboard Functions	4 Groups of relays
Optocoupler Isolation	16 Expansion GPIO

HRS4H-S-DC5V Relay: 4 Blue LEDs Relay Work Indicator

- ① K1 Relay: GPIO21
- ② K2 Relay: GPIO19
- ③ K3 Relay: GPIO18
- ④ K4 Relay: GPIO05

Support T-U2T Upload Tool:

Computer->USB Type-C data cable->

Needs to be connected to T-U2T [USB to serial] downloader to program , convenient, fast;
USB data line can be directly powered

Technology Support [**Github**]

If you need technical support please check the link to find more details .

[T-Relay](#)

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

T-U2T User Guide

LILYGO® T-U2T Compatible Development Boards

LILYGO® Products without USB-to-Serial Chip



No need to download circuit of the chip time by time. We make USB-to-Serial Chip of motherboard into T-U2T, which can be used for all LILYGO® T-U2T compatible motherboards, reducing product costs.

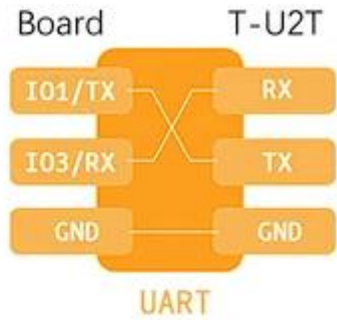


Connect Male to the Board.

Notice:

TX & RX in T-U2T has been connected inside, please follow the reference picture as example.

Connect Female to Type-C cable.

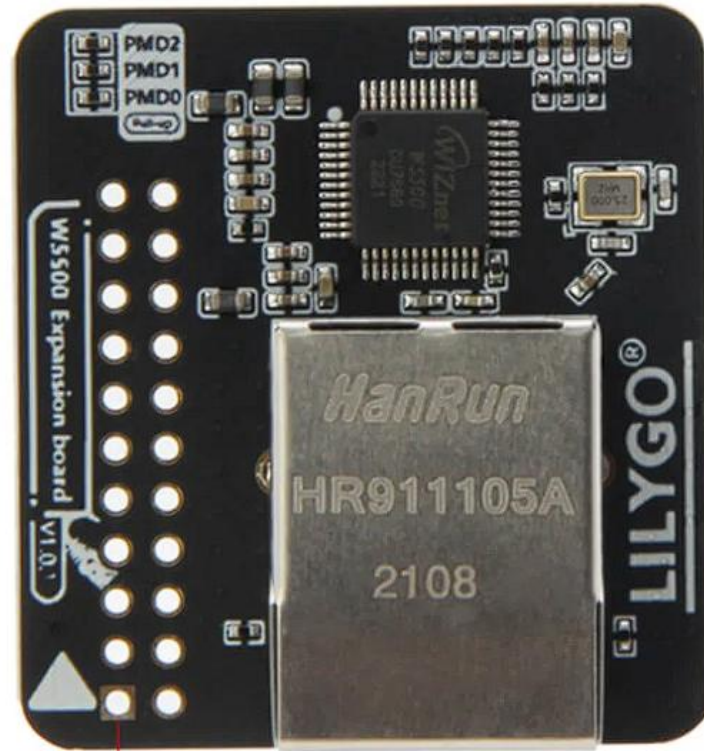


- A1 GND
- B12 GND
- A4 VBUS
- B9 VBUS
- B8 RST
- A5 IO0
- B7 RX
- A6 TX
- A7 RX
- B6 TX
- A8 RST
- B5 IO0
- B4 VBUS
- A9 VBUS
- B1 GND
- A12 GND

PIN_W5500_CLK	IO22	PIN_W5500_CS	IO27
PIN_W5500_MISO	IO13	PIN_W5500_RESET	IO23
PIN_W5500_MOSI	IO26	PIN_W5500_INT	IO36

Support **T-Relay**
4-way and 8-way

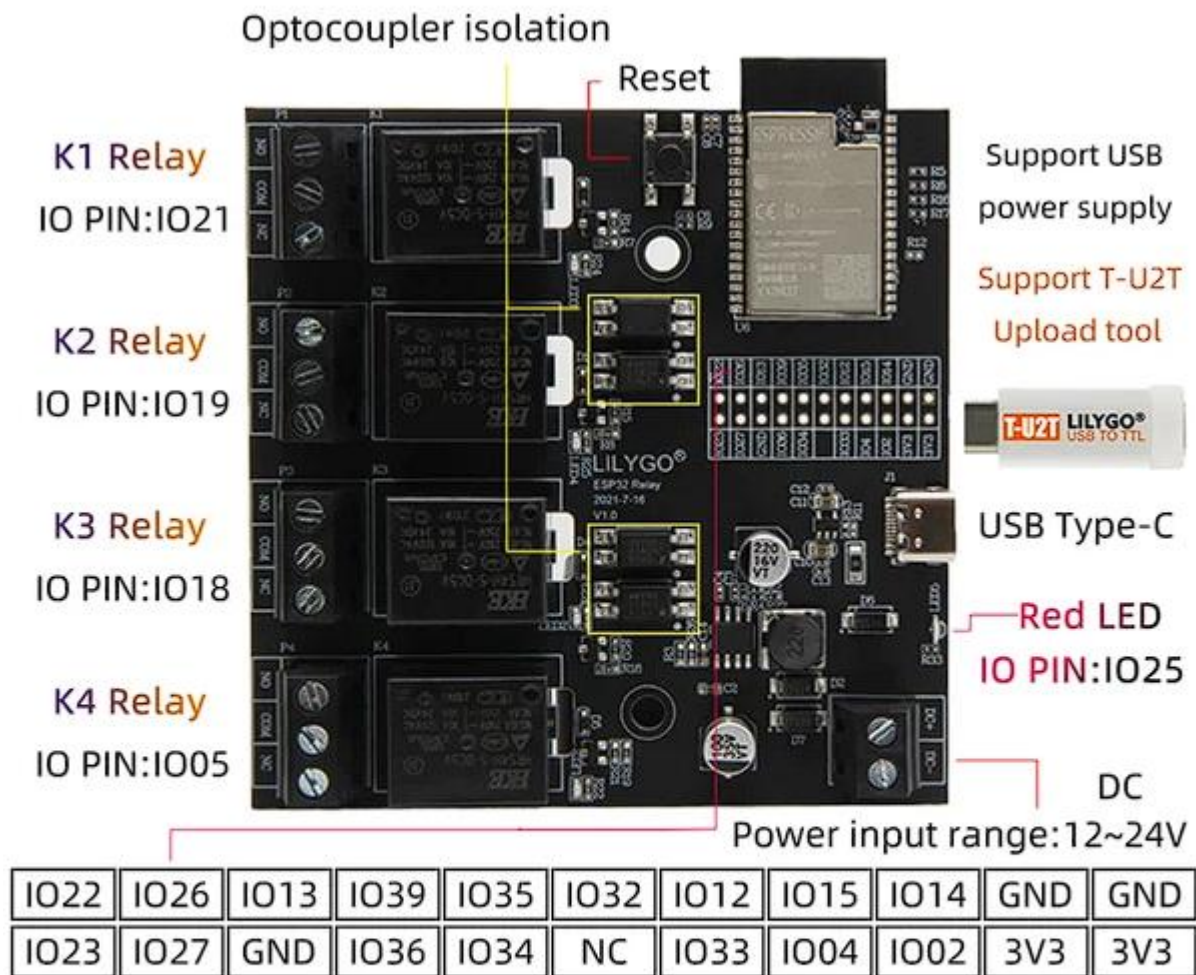
IO23		IO22
IO27		IO26
GND		IO13
IO36		IO39
IO34		IO35
		IO32
IO33		IO12
IO4		IO15
IO2		IO14
3V3		GND
3V3		GND



W5500 Module

T-Relay W5500 Ethernet Shield

Hardwired TCP/IP Protocols SPI Interface Ethernet module



LILYGO T-Relay ESP32 PINMAP

