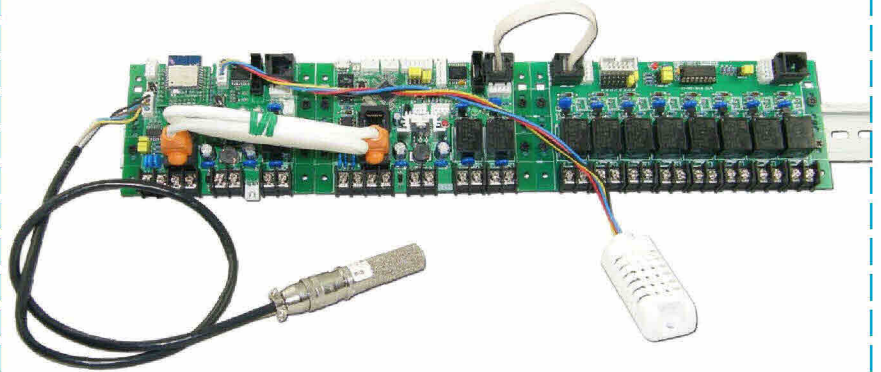
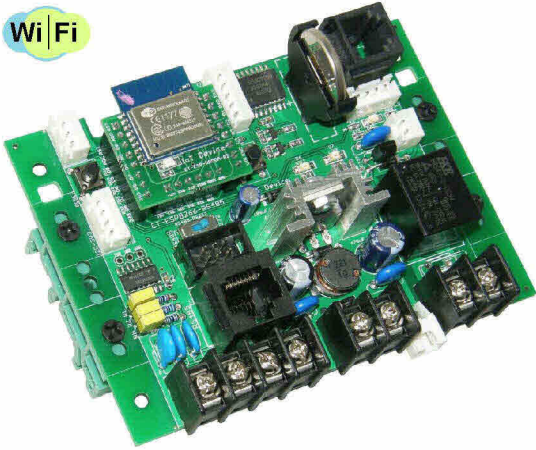


**ET-ESP8266-RS485 (P-ET-A-00579)**

**ET-ESP8266-RS485** is Board Controller in the family of ESP8266 of ESPRESSiF SYSTEM; it uses ESP-WROOM-02 WIFI MODULE that has WIFI inside, it can connect to NET with TCP/IP. It can send command to control application or is used as IoT. The Program can be developed and written by C++ Language of Arduino IDE for ESP8266; it is easier and more convenient to develop and use board.

Wi-Fi

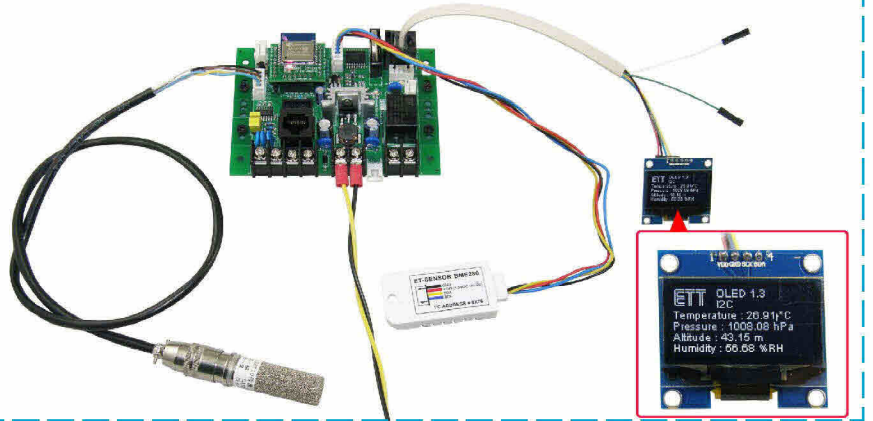


• It illustrates how to connect ET-ESP8266-RS485 with ET-MEGA32U4-RS485 and ET-SENSOR BME280, ET-SHT10 WATER PROOF, ET-I2C REL8.

• It illustrates how to connect ET-ESP8266-RS485 with SENSOR ET-SHT10 WATER PROOF and ET-SENSOR BME280; it sends the reading data to show on OLED 1.3 I2C.

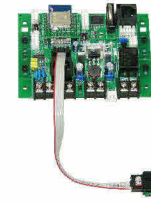


• It illustrates how to connect ET-ESP8266-RS485 with Program Blynk and IOT Platform like NETPIE, IOTTWEET.



**SPECIFICATIONS**

- Use MODULE ESP8266-WROOM-02, 2 MB FLASH, 32 BIT LOWPOWER MCU, 10 BIT ADC
  - IEEE 802.11 b/g/n AT 2.4 Ghz
  - TCP/IP PROTOCOL STACK
  - PERIPHERAL UART/ HSPI/ I2C/ I2C/ IR
- PORT RS485 2-WIRE HALF DUPLEX, CONNECTOR 4 PIN BARRIER TERMINAL 7.62mm. and 1 of CONNECTOR FEMALE RJ45; it can connect Signal from board together
- Have RTC (REAL TIME CLOCK) No.DS3231 with BATTERY 3V BACK UP
- Have 1 of OUTPUT RELAY 10A with CONNECTOR 2 PIN BARRIER TERMINAL 7.62mm., NO/Common CONTACT
- BUS I2C can be connected with I2C devices that are either 3V or 5V to expand INPUT/OUTPUT devices like LCD 16x2 I2C, OLED 1.3 I2C, ET-I2C REL8, ET-I2C DCIN8, ET-I2C TO 40 IO-DIN or various I2C SENSOR like ET-SENSOR SHT31(measuring humidity and temperature), ET-SENSOR BME280(measuring humidity, temperature and pressure), and etc.
- Connector I2C has either FEMALE RJ 6 PIN, WAFER 4 PIN (2.50 mm.), or WAFER 5 PIN (2.50mm.)
- Connector ANALOG ADC 0-3.3V 1-CH WAFER 3 PIN (2.50mm.)
- Connector RS232 TTL 6 PIN IDC is used to develop and write program to board; UPLOAD Program via Board **ET-USB USART/TTL (OPTION)**
- POWER SUPPLY 7-30VDC for board uses IC SWITCHING 5V/1A No.LM2575-5, CONNECTOR 2 PIN BARRIER TERMINAL 7.62mm. and WAFER 2 PIN (2.50mm.)
- RAIL DIN 35 mm.
- PCB size: 10.4 x 7.6 cm.
- Package of **ET-ESP8266-RS485** includes...
  1. Board ET-ESP8266-RS485
  2. CD-ROM Manual and Example Program



It illustrates how to connect **ET-ESP8266-RS485** with **ET-USB USART/TTL (OPTION)**.

