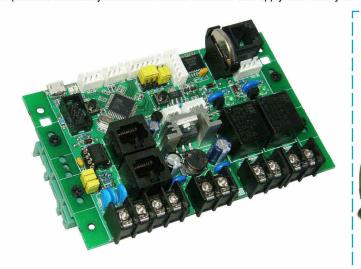
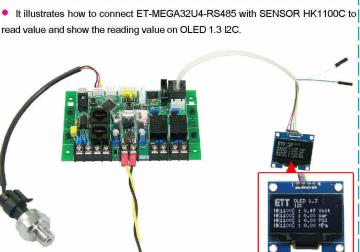
ET-MEGA32U4-RS485 (P-ET-A-00575)

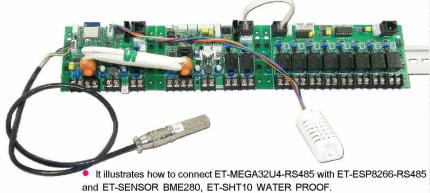
ET-MEGA32U4-RS485 is Board Controller in the family of AVR that can develop program by C or C++ Language of Arduino; it is OPEN SOURCE. This Board version uses MCU No.ATMEGA32U4 that has USB PORT inside; so, it can be connected to Board USB PORT of computer directly. Moreover, it provides necessary devices on board that user can apply and modify to various PROJECTS as required.







 It illustrates how to connect ET-MEGA32U4-RS485 with ET-ESP8266-RS485.



SPECIFICATIONS

- Use ATMEGA32U4 44 PIN TQFP as MCU on board, Run with Frequency 16 MHz
- 32 KBYTE FLASH, 2.5 KBYTE RAM, 1 KBYTE EEPROM
- Internal USB CONTROLLER as USB 2.0 can be connected to computer directly to write and develop program; Connector from Board is MICRO USB TYPE
- PORT RS485 2-WIRE HALF DUPLEX; CONNECTOR 4 PIN BARRIER TERMINAL 7.62 mm.; 2 of CONNECTOR FEMAL RJ11; it can connect Signal from board together
- JUMPER chooses 32-ADDRESS; it has to write data to read value of JUMPER
- RTC (REAL TIME CLOCK) No.DS3231 with BATTERY 3V BACK UP
- 2 of OUTPUT RELAY 10A with CONNECTOR 2 PIN BARRIER TERMINAL 7.62mm. with 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 RJ11 6 PIN, WAFER 4 PIN (2.50 mm.), or WAFER 5 PIN (2.50mm.)
- CONNECTOR 1-WIRE I/O is connected to 1-WIRE or IBUTTON devices like Temperature Sensor No.DS18B20, Connector WAFER 3 PIN (2.50 mm.)
- Have CONNECTOR ANALOG 0-5V or change to DIGITAL I/O as WAFER 6 PIN (2.50 mm.) like connecting to ET-SHT10 WATER PROOF (measuring temperature, humidity with waterproof)
- Have CONNECTOR ANALOG 0-5V or change to DIGITAL I/O as WAFER 3 PIN (2.50 mm.) 2-CH like connecting to SENSOR HK1100C (measuring pressure inside water pipe).
- CONNECTOR ISP 6 PIN (2.54 mm.) under ATMEL Standards for programming via ISP Programmer
- POWER SUPPLY 7-30VDC for board uses IC SWITCHING 5V/1A No.LM2575-5, CONNECTOR POWER 2 PIN BARRIER TERMINAL 7.62mm.
- RAIL DIN 35mm.
- PCB size: 12.2 x 7.6 cm.
- Package of ET-MEGA32U4-RS485 includes...
- 1. Board ET-MEGA32U4-RS485
- 2. CD-ROM Manual and Example Program



