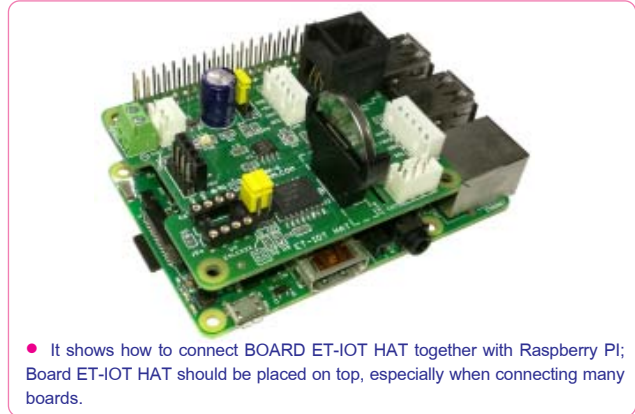




ET-IOT HAT (P-ET-A-00600)



Board **ET-IOT HAT** is particularly designed to connect to Board Raspberry Pi via Connector 40 PIN; Board is expanded to connect to I2C BUS System in order to expand system of INPUT, OUTPUT, SENSORS, 1-WIRE System connection, and additional RTC connection.

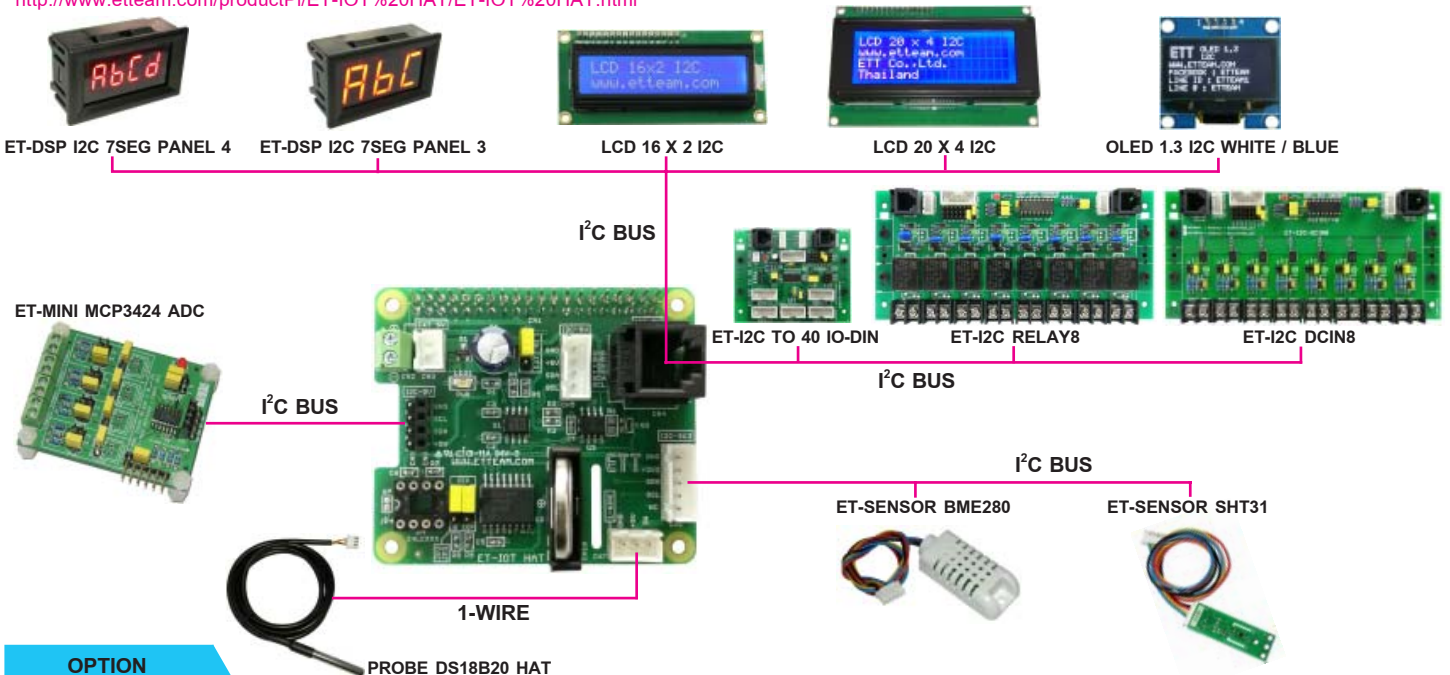


It shows how to connect BOARD ET-IOT HAT together with Raspberry Pi; Board ET-IOT HAT should be placed on top, especially when connecting many boards.

SPECIFICATIONS OF BOARD ET-IOT HAT

- Can be connected together with Board Raspberry Pi as 40PIN BUS type such as Raspberry Pi A, B+, PI2, PI3, PI3+
- Have PORT as I2C BUS. IC No.PCA9517 is used as I2C BUS REPEATER to change signal level from 3.3V of Raspberry Pi to BUS I2C 5V; so, it can communicate to I2C devices longer
- Have 1-WIRE PORT. IC DS2482-100 changes I2C communication to 1-WIRE communication such as connecting to 1-Wire Temperature Measurement Device No.DS1820.
- Have RTC No.DS3231 provided with BATTERY 3V BACKUP on board; it is real time for Board Raspberry Pi
- Have 8PIN SOCKET for connecting to EEPROM in the series of 24XX (OPTION); it is used as ID of Board or general task
- Have various types of CONNECTOR I2C; CONNECTOR FEMALE RJ 6PIN (5V), CONNECTOR WAFER 4PIN 2.50 mm. (5V) and CONNECTOR WAFER 5PIN 2.50 mm. (3.3V). It can be connected to ETT I/O Boards such as LCD 16x2 I2C, LCD 20x4 I2C, OLED 1.3 I2C, ET-DSP I2C 7SEGMENT, ET-I2C RELAY8, ET-I2C DCIN, ET-I2C TO 40 IO-DIN; or it can be used with various I2C SENSORS such as ET-SENSOR SHT31, ET-SENSOR BME280 and so on.
- CONNECTOR 1-WIRE in the format of WAFER 3PIN 2.50 mm. (5V) to connect to 1-WIRE devices such as Temperature Measurement Device "PROBE DS18B20", HAT
- External CONNECTOR POWER SUPPLY 5VDC from Board Raspberry Pi; it can be WAFER 2PIN 2.50 mm. or SCREW TERMINAL BLOCK 2PIN as required
- CONNECTOR 4PIN HEADER 2.54 mm. MALE and FEMALE of PORT I2C is directly connected to Boards such as ET-MINI MCP3424 ADC (14 BIT 4CH) via CABLE HOUSING 4P-4P (OPTION)
- PCB size: 6.5 X 5.6 cm
- Aluminum Pole is OPTION, please choose the right model that fits into user's board connection
- Package of BOARD ET-IOT HAT includes...BOARD ET-IOT HAT, Document, and Example Programs, please DOWNLOAD from following link:

<http://www.etteam.com/productPi/ET-IOT%20HAT/ET-IOT%20HAT.html>



OPTION

- **PROBE DS18B20 HAT (P-CB-A-00046)**
It is Temperature Measurement Device " DS18B20 " provided with 100 cm. long water-proof Cable.

- **HOUSING 4P-4P (P-CB-A-00045)**
It is 20 cm long HOUSING 4 PIN Cable and both Terminal is FEMALE (2.54mm.)