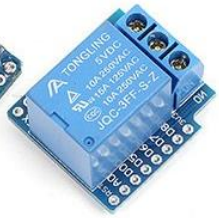
15 Sensor Mini D1 Pro Learning Kit

Description:

This is a set of blue metal mini D1 PRO WiFi ESP8266 development board 15 different sensors learning kit compatible with NodeMcu Lua with a 17*10*2cm packaging.

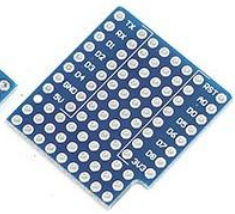
Package Contents:

0.66 inch
OLED display



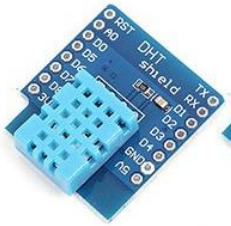
High level
relay module

Button expansion
board

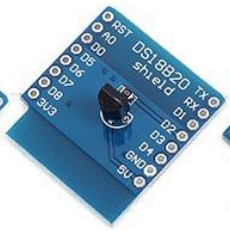


Bread board
extension

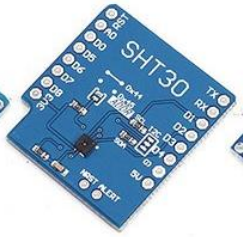
TB6612
motor board



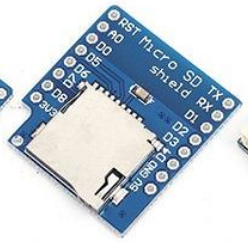
DHT11
temperature humidity
sensor board



DS18B20
temperature
sensor board

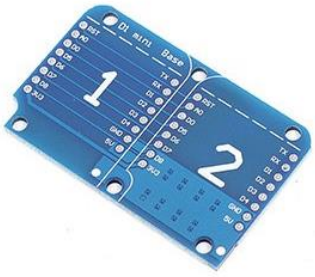


SHT30
temperature
and humidity
sensor board



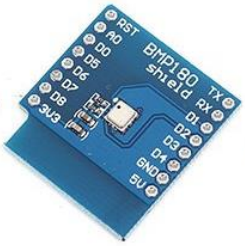
TF card board

Charging
expansion board.



One turn two switch board

WS2812 RGB
colorful board



BMP180
pressure
sensor board

ESP8266 board

Detailed Explanation of Some Modules:

ESP 8266 Board:

1. Based on ESP - 8266EX, all IO ports elicited.
2. Use CP 2102 to ensure stability to serial port driver as transmission
3. Board high quality antenna secured wireless transmission signal and distance
4. Built-in 16M bytes (128M bit) memory
5. Reserved external antenna

WS 2812 RGB Colorful Board:

1. Working temperature is 25~80°C
2. The speed data transmission is up to 800 Kbps
3. With the control circuit and the RGB chip integrated into a complete 5050 packaged component to integrate the complete external control pixel points
4. Each pixel can obtain three colors, 256 luminance display, and all color display of 16777216 colors, less than 400 Hertz / without scanning frequency

DS18B20 Temperature Sensor Board:

1. The range temperature measurement is -55~+ 125°C
2. Accuracy is ± 0.5 centigrade (-10 to 85°C)
3. Acquisition accuracy is 12 - bits from 9 – bits
4. Mode communication is 1-wire

DHT11 Temperature and Humidity Sensor Board:

1. Moisture measurement range is 95% to 20% (range from 0°C to 50°C)
2. Error humidity measurement ± 5%
3. Error temperature measurement ± 2 °C
4. Operating voltage is 3.3 / 5 volts
5. Output form is digital output

BMP180 Pressure Sensor Board:

1. Pressure range 300 m to 1100 hpa (500 m above sea level to 9000 m)
2. The power supply voltage is 3.6 volts (vddd)
3. High accuracy: low power mode, resolution 0.06 hPa (0.5 m)
4. With high linearity, the resolution is 0.03 hpa (0.25 m)

SHT30 temperature and humidity sensor board:

1. Measurement accuracy is ± 0.3 °C, ± 3% RH
2. The measurement range is -40 to +125 °C, 0 to 100% RH
3. Response time is 8 s (tau 63%) 5 - 30 (tau 63%)
4. Interface 12c interface

High Level Relay Module:

1. High quality relay
2. It is more convenient to connect the control line to the kf301 terminal
3. High level trigger
4. Power supply is DC 5V

TF Card Board:

1. Power supply voltage is 5 volts
2. The interface level is 5 volts to 3.3 volts
3. Support card type micro SD card (2 grams) and micro SDHC (32 grams)
4. Current to milliamperes (max)

Button Expansion Board:

1. Operating voltage is 3.5 volts, 5 volts
2. Output is digital level (press high level, release low level)
3. 12 mm * 12 mm * 5 mm button
4. The insulation voltage is 30 vDC

TB6612 Motor Board:

1. Built - in driver boot loader
2. Use driver chip
3. Interface definition:
   VM: DC +
   GND: DC -
   A1, A2: motor A
   B1, B2: motor B
   S: IO pattern selection

0.66 inch OLED Display:

1. The screen size is 0.66 inch (64 mm * 48 mm)
2. Driver chip SSD 1306
3. The operating voltage is 3.3 volts
4. IIC (I2c) interface
5. The i2c address is 0X3C or 0X3D

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