ESP8266 0.96 Inch OLED Board

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- The ESP8266 NodeMCU board has all the features of the traditional ESP8266 module, with the same exact size and peripheral ports, offers seamless integration with a 0.96-inch OLED display, eliminating the need for frustrating wires and breadboards. Display features a high-resolution 128x64 with SSD-1306 driver and is compatible with I2C,SPI interfaces. Plus,It uses Micro usb cable to connect. Say goodbye to messy setups and hello to hassle-free electronics with the ESP8266 NodeMCU board
- This board uses I2C to connect to an OLED display via the SDA (D6 / GPIO12) and SCL (D5 / GPIO14) pins. With this board, it's easy to display a variety of information and data
- To install the new version driver for CH340, simply search for the keywords "CH340 Driver" on Google.com or Bing.com and follow the installation instructions provided. Recommended for Win10 Operating System
- ESP8266 NodeMCU board is equipped with ESP-12E module, which contains the Tensilica Xtensa 32-bit LX106 RISC microprocessor powering the ESP8266 chip. This microprocessor supports RTOS and operates at a clock frequency that can be adjusted between 80MHz and 160 MHz. It also boasts 128 KB of RAM and 4MB of Flash memory, providing ample storage for data and programs. With its high processing power, built-in Wi-Fi, and Deep Sleep Operating features, It's is an excellent choice for IoT projects
- This board is an outstanding option for various Internet of Things (IoT) projects. It can be used to display network connection status, monitor information, power levels, and other relevant data. Additionally, it's suitable for building Internet Weather Stations, News Stations, Clocks, and Other similar applications

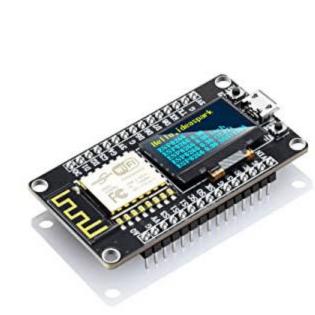
Package List:

- 1 x ESP8266-0.96" OLED Board (Pin Header Soldered)
- This circuit board integrates the ESP8266 NodeMCU and a 0.96-inch OLED screen, providing all the functionality of the traditional ESP8266 module, with the same size and peripheral ports, as well as high-performance development tools and high-definition data display. It supports multiple programming modes, including Arduino IDE, MicroPython, and Lua scripts, and features the ESP8266 chip with a 80MHz main frequency and 4MB flash memory, enabling it to easily handle various tasks and applications, with a complete network protocol stack and security mechanism. It is low power consumption and high performance, suitable for beginners and professionals to develop and apply Internet of Things projects. The pins are soldered. Plug and play.



Applications:

display



Specifications &Features:

ESP8266 NodeMCU

- Microcontroller:Tensilica 32-bit RISC CPU Xtensa LX106 Driver:CH340G
- Operating Voltage:3.3V
- Input Voltage:7-12V
- Digital I/O Pins (DIO):16
- Analog Input Pins(ADC):1
- UARTs:1 SPIs:1 12Cs:1 Flash Memory: 4 MB SRAM:64 KB Clock Speed: 80 MHZ
- Small Sized module to fit smartly inside your loT projects
- n Play

USB-TTL based on CH340 is included onboard, Enabling Plug

Sensor Network Industrial Control etc...

· Network information

Internet of Things

Home automation

Measurement Tools

Smart home gateway

 Display Wifi Connection Status

Applications:

- Display debugging information
- Display battery power Display network
- Weather, News and Clock
- MP3, MP4, watch etc...



ESP8266 and OLED Port Mapping

ESP8266 ----- 0.96" OLED

VCC(3.3V) ----- VCC

GND ----- GND

D6(GPIO12) ----- SCA

D5(GPIO14) ----- SDL

0.96 Inch SSD1306 OLED

OLED self-luminous, no backlight

Features:

- Size: 0.96 inch · Color: Yellow Blue
- Driver IC: SSD1306
- Voltage: 3.3V-5V DC Working Temperature: -30°C~70°C
- Module Size: 27mmx 27mm x 4mm
- Viewing angle: > 160°, High resolution: 128 x 64 · Screen material: glass, need good protection
- - I2C Interface:

SDA: I2C Serial Data

SCL: I2C Serial Clock





Refer to the Picture. Download the driver, connect board to the computer with Micro USB cable, configure the IDE, and upload the code to board

How to Make ESP8266-OLED Board Work:

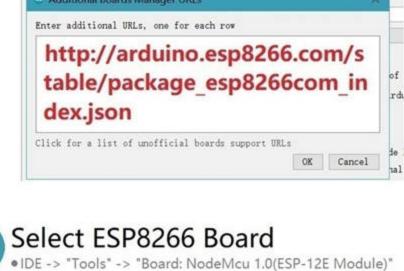


Web Search CH340 Driver

Search, download driver. Recommended for Win10 OS



Add Boards Manager URLs in IDE





Generic ESP8266 Module, Generic ESP8285 Module, Lifely Agrumino Lemon v4, ESPDuino (ESP-13

IDE -> "Board" -> "Boards Manage"

by ESP8266 Community version Boards included in this package:

esp8266_096oled | Arduino 1.8.19

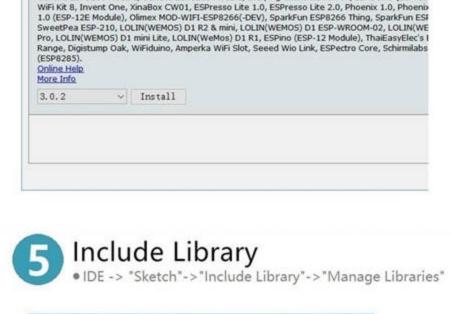
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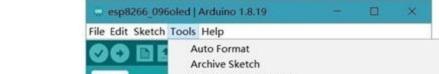
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u8g2.se

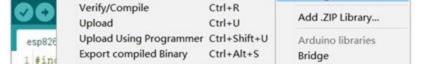
Install ESP8266 Board Package







∨ u8g2



Manage Libraries..





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