NodeMCU-32S Help Instruction

Thank you very much for purchasing our products, if there are any questions, please feel free to contact us via Amazon or Email, Email: help@aokin.vip, we will do our best for you.

From this link: https://github.com/aokindiy/document can get this NodeMCU-32S help instruction electronic document.

Connect the cables:
Use the Micro USB cable to connect the PC and the NodeMCU-32S development board, and confirm the COM port of the chip from the Windows Device Manager.

For make WiFi and Bluetooth functions are working great. It's important to ensure the boards have sufficient power when using WiFi or BT, **so be sure to use a USB port on your PC or a powered hub, and not an unpowered hub.**

Note: MAKE SURE YOUR USB CABLE IS FOR DATA, NOT ONLY CHARGING!

Getting setup in Arduino IDE:
Initial setup you needed to install a driver for a SI Labs CP210X USB driver chip and install the board in the Arduino software. Once that's done, select NodeMCU-32S or Node32s as the board, and you're set.

That may exist some customer upload a program from the Arduino IDE, **need to keep the "IOO" button pressed until the upload begins, then release it. Otherwise, the upload fails,** some people think it is caused by platform io issues.

Be advised you will have to push reset when uploading (it will save you some google research time).

CP2102 Driver:
http://www.silabs.com/products/development-tools/software/usb-to-uart-bridge-vcp-drivers
Warm Tips:
When you download the program to the development board, you need to press the IOO button for 1-2 seconds.

Related resources link:
For NodeMCU:
https://github.com/Nicholas3388/LuaNode
https://github.com/nodemcu/nodemcu-firmware/tree/dev-esp32
For Arduino:
https://github.com/espressif/arduino-esp32
ESP32 installation in Arduino IDE:

https://dl.espressif.com/dl/package_esp32_index.json

Andreas Spiess did a good video about how to use the ESP32 in the Arduino IDE: https://www.youtube.com/watch?v=DgaKlh081tU

For specific module performance, please refer to the technical specification of the ESP32-WROOM-32 module:

https://www.espressif.com/sites/default/files/documentation/esp32-wroom-32_datasheet_en.pdf

How to download and run programs for Nodemcu-32s

Download mode: You can download directly after connecting the USB cable. Note: The baud rate cannot be selected as 1152000

Run mode: Press the EN button on the development board, the development board will switch to run mode

Note:

This board has no pin labeling on the top side, but the product package included a printed sheet with that and other information, and the pin labels are on the bottom side of the board anyway (not the most convenient side but that saves space, so the board can use on a breadboard).