How to add ESP8266 board into Arduino IDE

These notes will assist you installing the necessary board library into the Arduino IDE to use the WSP8266 LOLIN(Wemos) D1 R2 and Mini board. The ESP8266 is a cheaper and fit for purpose board for use in the build. It is pin compatible with the W8BH main board.

For instructions as to how to manually add a new board library to the Arduino IDE go to:
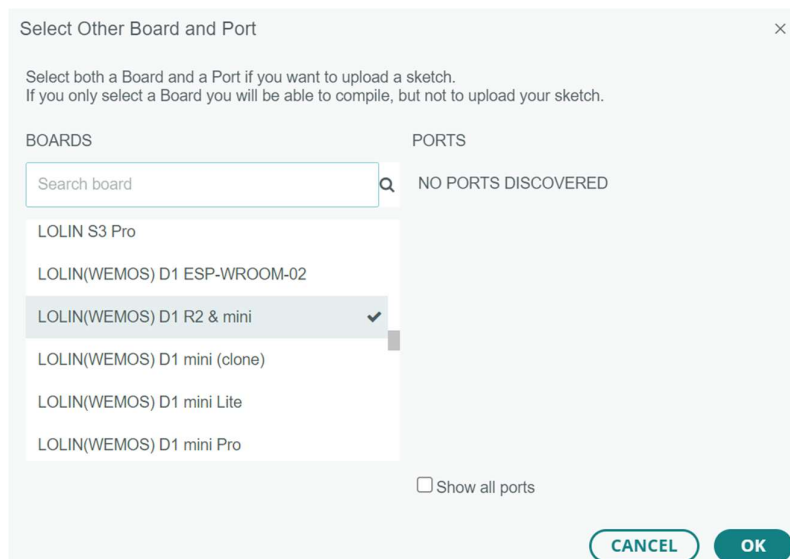
[Add third-party platforms to the Boards Manager in Arduino IDE – Arduino Help Center](#)

> https://support.arduino.cc/hc/en-us/articles/360016466340-Add-third-party-platforms-to-the-Boards-Manager-in-Arduino-IDE

Follow the instructions and add the following URL

> http://arduino.esp8266.com/stable/package_esp8266com_index.json

Once installed the LOLIN(Wemos) D1 R2 and Mini board will be an option in the

Select Other Board and Port   ✕

Select both a Board and a Port if you want to upload a sketch.
If you only select a Board you will be able to compile, but not to upload your sketch.

BOARDS   PORTS

Search board   🔍   NO PORTS DISCOVERED

LOLIN S3 Pro

LOLIN(WEMOS) D1 ESP-WROOM-02

LOLIN(WEMOS) D1 R2 & mini   ✓

LOLIN(WEMOS) D1 mini (clone)

LOLIN(WEMOS) D1 mini Lite

LOLIN(WEMOS) D1 mini Pro

☐ Show all ports

CANCEL   OK

Then go back and select:

2. Next, configure the IDE. I am currently using IDE version 1.8.13.
    a) Choose Tools-> Board -> ESP8266 Boards -> LOLIN(Wemos) D1 R2 and mini
    b) Tools -> Port -> (choose the computer port attached to the ESP8266)