



“platformio.ini” (Project Configuration File)

Each PlatformIO project has a configuration file named `platformio.ini` in the root directory for the project. This is a [INI-style](#) file.

`platformio.ini` has sections (each denoted by a `[header]`) and key / value pairs within the sections. Lines beginning with `;` are ignored and may be used to provide comments.

Multiple value options can be specified in two ways:

1. Split values with “,” (comma + space)
2. Multi-line format, where each new line starts with at least two spaces

There are two required sections:

- [PlatformIO Core \(CLI\)](#) settings: [Section \[platformio\]](#)
- Environment settings: [Section \[env\]](#)

The other sections are optional to include. Here are the allowed sections and their allowed contents:

- [Section \[platformio\]](#)
 - [Generic options](#)
 - [Directory options](#)
- [Section \[env\]](#)
 - [Common \[env\]](#)
 - [Environment \[env:NAME\]](#)
 - [Options](#)
- [Build Configurations](#)
- [Dynamic variables](#)
- [Examples](#)

Example

For more examples, see [Examples](#).


```

[platformio]
default_envs = nodemcu2

; You MUST inject these options into [env:] section
; using ${common_env_data.***} (see below)
[common_env_data]
build_flags =
    -D VERSION=1.2.3
    -D DEBUG=1
lib_deps_builtin =
    SPI
    Wire
lib_deps_external =
    ArduinoJson@~5.6,!5.4
    https://github.com/kiibohd/PJON.git#v2.0
    IRremoteESP8266=https://github.com/markszabo/IRremoteESP8266/archive/master.zip

[env:nodemcu2]
platform = espressif8266
framework = arduino
board = nodemcu2

; Build options
build_flags =
    ${common_env_data.build_flags}
    -DSSID_NAME=HELLO
    -DSSID_PASSWORD=WORLD

; Library options
lib_deps =
    ${common_env_data.lib_deps_builtin}
    ${common_env_data.lib_deps_external}
    https://github.com/me-no-dev/ESPAsyncTCP.git
    PubSubClient@2.6
    OneWire

; Serial Monitor options
monitor_speed = 115200
monitor_flags =
    --encoding
    hexlify

; Unit Testing options
test_ignore = test_desktop

[env:bluepill_f103c8]
platform = ststm32
framework = arduino
board = bluepill_f103c8

; Build options
build_flags = ${common_env_data.build_flags}

; Library options
lib_deps =
    ${common_env_data.lib_deps_external}

; Debug options
debug_tool = custom
debug_server =
    JLinkGDBServer
    -singlerun

```

```
-if  
SWD  
-select  
USB  
-port  
2331  
-device  
STM32F103C8  
  
; Unit Testing options  
test_ignore = test_desktop
```