Shen Zhen Shi Ya Ying Technology ESP8266 Wi-Fi Development Board User Manual

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Product: ESP8266 WiFi Development Board

Model(s): ESP8266

OEM/Integrators Installations User Manual

The module is limited to OEM installation only.

This product is mounted inside of the end product only by professional installers OEM. They use this module with changing the power and control signal setting by software of end product within the scope of this application. End user cannot change this setting.

This device is intended only for OEM integrators under the following conditions:

1. The antenna must be installed such 20cm is maintained between the antenna and users, the antenna is a PCB printed antenna with a gain of 2.0dBi.
2. The transmitter module may not be co-located with any other transmitter or antenna.

As long as these two conditions are met, further transmitter test will not be required. However, integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed.

The OEM integrator has to be aware no to provide information to the end user regarding howto install or remove this RF module in the user manual of the end product with integrates this module. The end user manual shall include all required regulatory information/warning as show in this manual.

If the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display alabel referring to the enclosed module.

This exterior label can use wording such as the following:

“Contains FCC ID: 2A4RQ-ESP8266”

When the module is installed inside another device, the user manual of this device must contain below warning statement:

Frederal Communication Commission Interference Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following twoconditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generate, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

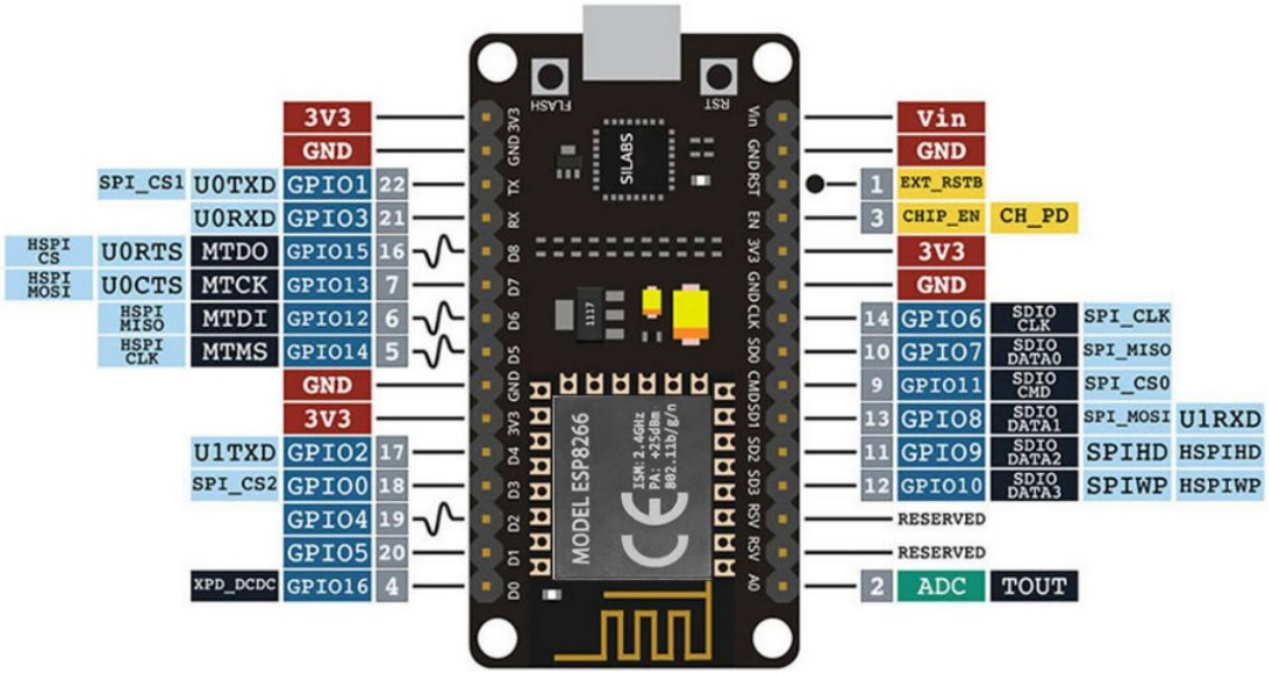
Caution:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.
This transmitter must be co-located or operating to conjunction with any other antenna or transmitter.

That separate approval is required for all other operating configurations, including portable configurations with respect to Part 2.1093 and different antenna configurations.

Installation:

Directly download the code after connecting to the computer through a USB cable.

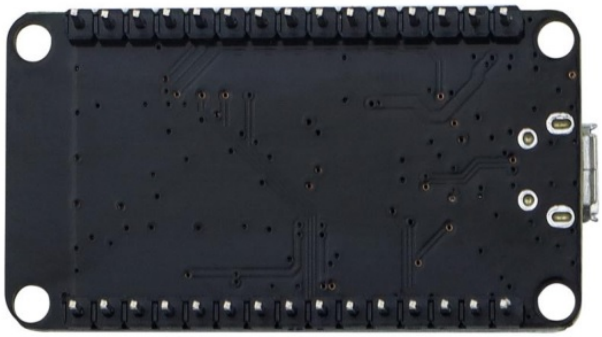


Pin No.	Pin Name	Pin Description
1	3V3	Power Supply
2	GND	Ground
3	TX	GPIO1,U0TXD,SPI_CS1
4	RX	GPIO3,U0RXD
5	D8	GPIO15, MTDO, U0RTS, HSPI CS
6	D7	GPIO13, MTCK, U0CTS, HSPI MOST
7	D6	GPIO12, MTDI, HSPI MISO
8	D5	GPIO14, MTMS, HSPI CLK
9	GND	Ground
10	3V3	Power Supply
11	D4	GPIO2, U1TXD

12	D3	GPIO0, SPI_CS2
13	D2	GPIO4
14	D1	GPIO5
15	D0	GPIO16, XPD_DCDC
16	A0	ADC,TOUT
17	RSV	RESERVED
18	RSV	RESERVED
19	SD3	GPIO10, SDIO DATA3, SPIWP, HSPIWP
20	SD2	GPIO9, SDIO DATA2, SPIHD, HSPIHD
21	SD1	GPIO8, SDIO DATA1, SPI_MOSI, U1RXD
22	CMD	GPIO11, SDIO CMD, SPI_CS0
23	SD0	GPIO7, SDIO DATA0, SPI_MISO
24	CLK	GPIO6, SDIO CLK, SPI_CLK
25	GND	Ground
26	3V3	Power Supply
27	EN	Enable

28	RST	Reset
29	GND	Ground
30	Vin	Power Input

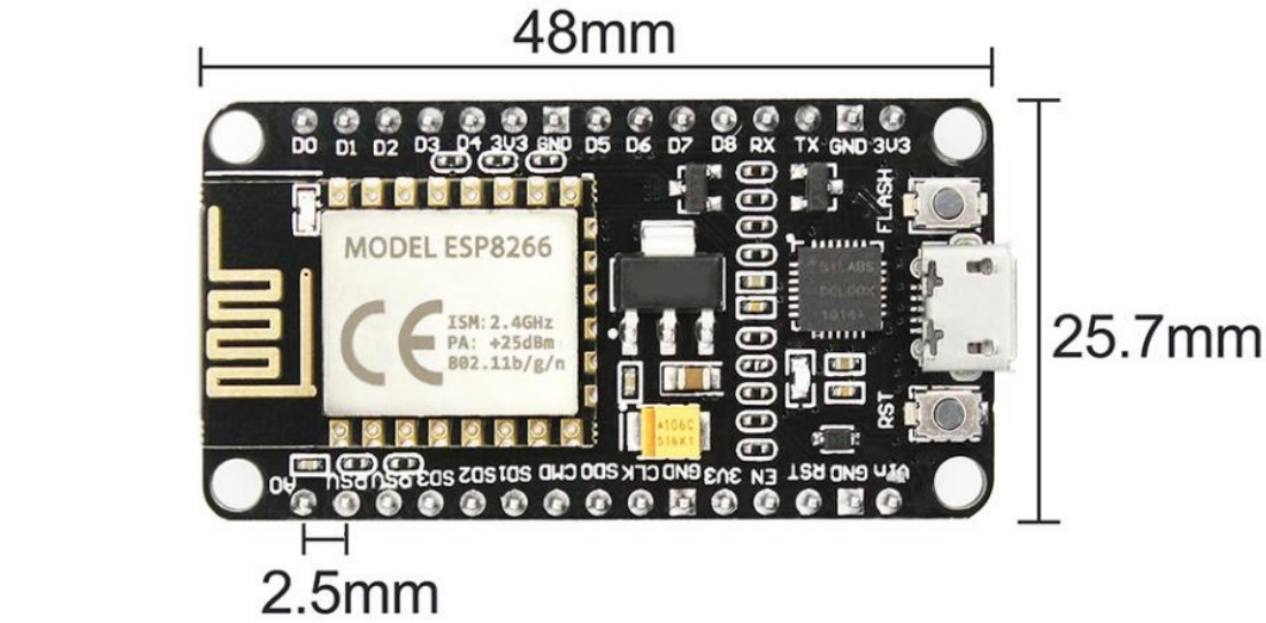
More module information is provided below:

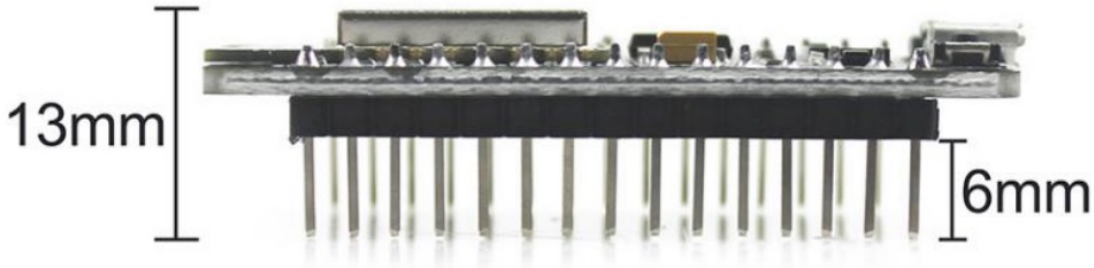


ESP8266 BOTVIEW

ESP8266 TOPVIEW

Outline Dimension





Contents

Documents / Resources

	**Shen Zhen Shi Ya Ying Technology ESP8266 Wi-Fi Development Board** [pdf] User Manual ESP8266, 2A4RQ-ESP8266, 2A4RQESP8266, ESP8266 Wi-Fi Development Board, ESP8266, Wi-Fi Development Board