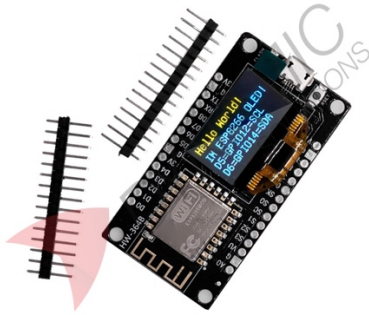


ESP8266 ESP-12F 0.96 Inch OLED Development Board

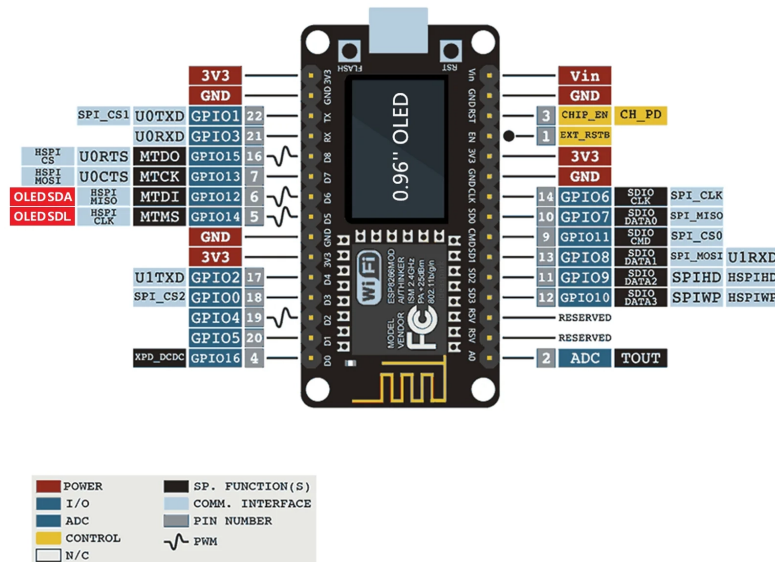


Features:

The ESP8266 0.96 Inch OLED Development Board, board marking HW-364B, pairs an ESP8266 running a Tensilica Xtensa 32-bit LX106 RISC microprocessor at 80MHz with 4MB flash and 64KB SRAM, and an integrated SSD1306 OLED wired internally over I2C. The display is a 128x64 glass panel, self-emissive with no backlight, rated 3.3V-5V DC with a viewing angle above 160 degrees and a working range of -30C to +70C. The board exposes 16 digital I/O, one ADC, one UART, one SPI and one I2C, and programs over Type-C through an onboard CH340G USB-TTL bridge. The OLED occupies D6 (GPIO12) as SDA and D5 (GPIO14) as SCL, so those two pins are not free for other use.

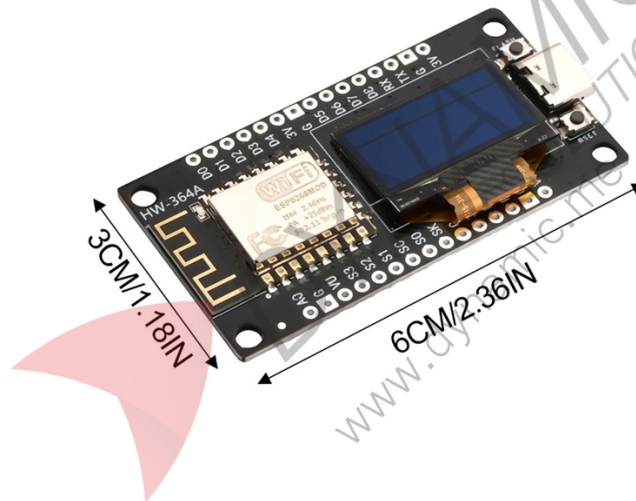
Specifications	
Board Marking	HW-364B
Module	ESP-12F
Microcontroller	Tensilica 32-bit RISC CPU Xtensa LX106
Clock Speed	80MHz
Flash Memory	4MB
SRAM	64KB
Working Voltage	3.3V
Input Voltage	7 to 12V
Digital I/O Pins	16
Analog Input Pins	1
UART	1
SPI	1
I2C	1
USB Driver	CH340G
USB Port	Type-C
Board Size	59 x 31mm
Display Size & Resolution	0.96 inch, 128 x 64
Display Driver IC	SSD1306
Display Type	OLED, self-emitting, no backlight
Display Material	Glass
Display Colour	Yellow-blue
Display Voltage	3.3 to 5V DC
Display Viewing Angle	above 160 degrees
Display Working Temperature	-30 to +70C
Display Module Size	25 x 17mm
Display Interface	I2C, SCL and SDA
Package Contents	1 x module (Type-C) and 3 pin header
Usage	IoT projects, network connection status display, monitoring information and power levels, internet weather stations, news stations, clocks

Pinouts:



Label	GPIO	Description
3V3	-	3.3V power output
GND	-	Ground
Vin	-	Voltage input
RST	-	Reset
EN	-	Chip enable
TX	GPI01	U0TXD, SPI_CS1
RX	GPI03	U0RXD
D8	GPI015	UORTS, HSPI CS, MTDO
D7	GPI013	U0CTS, HSPI MOSI, MTCK, PWM
D6	GPI012	OLED SDA, HSPI MISO, MTDI, PWM
D5	GPI014	OLED SCL, HSPI CLK, MTMS, PWM
D4	GPI02	U1TXD
D3	GPI00	SPI_CS2
D2	GPI04	PWM
D1	GPI05	-
D0	GPI016	XPD_DCDC
A0	ADC	Analog input, TOUT
CLK	GPI06	SDIO CLK, SPI_CLK
SD0	GPI07	SDIO DATA0, SPI_MISO
CMD	GPI011	SDIO CMD, SPI_CS0
SD1	GPI08	SDIO DATA1, SPI_MOSI, U1RXD
SD2	GPI09	SDIO DATA2, SPIHD, HSPIHD
SD3	GPI010	SDIO DATA3, SPIWP, HSPIWP

Product Dimensions:



Product Pictures:

