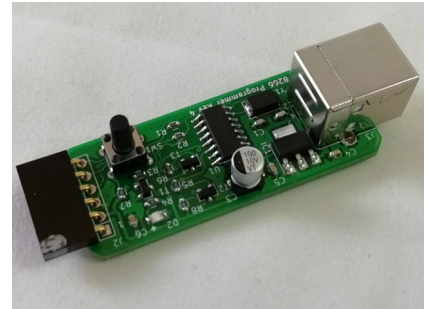


Datasheet

ESP8266 USB Programmer – MLP191018

Features and Benefits

- USB to serial using the CH340 chip
- Program using the Arduino IDE
- Reset button
- Simple 6 pin target connector
- Type B USB connector



Please Note

Your Arduino IDE needs to be setup to program the ESP8266. There are many fine tutorials on how to do this. It consists of adding a JSON link in the preferences and then adding the ESP8266 within the boards manager.

Product Details

A USB programmer for the ESP8266 chips from Espressif Systems. This board uses the CH340 USB to serial interface to program the ESP devices. The board also uses the GPIO0 and Reset lines to aid programming, just as Wemos and NodeMCU development modules. Uses the Arduino IDE. Connection is via a Type B USB socket (cable included).

Advantages

Using an external programmer makes the target board easier and cheaper to build without the USB interface, this also aids low power modes used for battery operation. Not having to power the USB interface can save precious battery power.

Drivers

For Windows a quick search for CH340-Driver will find what you need. For Linux uses just plug it in and it simply works. You will also need to have installed the Arduino IDE support for the ESP8266. Within the Arduino IDE select the correct serial Port and select the programmer as a Wemos D1 R2 Mini.

J2 Connections		
Pin	Name	Function
1	RST	Reset From Programmer
2	3V3	3V3 From Programmer
3	GND	Ground
4	TX Data	TX Data
5	RX Data	RX Data
6	GPIO0	Used to signal the ESP's bootloader

Specification	
Board Size:	63mm(L) x 20.5mm(W)
Weight:	6.5gm
USB Chip:	CH340
USB Connection:	USB 2.0 Connector Type B

Typical Connections

