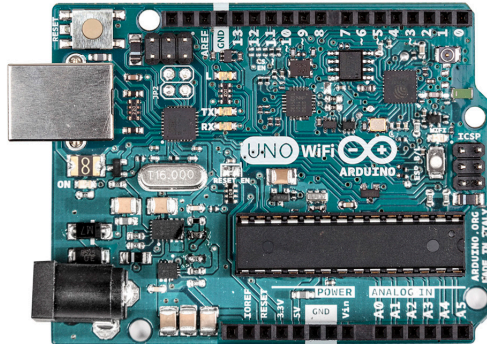




Arduino UNO WiFi



5V

Intermediate

Overview

The Arduino Uno WiFi is the new Arduino Uno with the WiFi module! The board is based on the ATmega328 with ESP8266 WiFi Module integrated.

It has 14 digital input/output pins (of which 6 can be used as PWM outputs), 6 analog inputs, a 16 MHz ceramic resonator, a USB connection, a power jack, an ICSP header, and a reset button. It contains everything needed to support the microcontroller; simply connect it to a computer with a USB cable, with a AC-to-DC adapter or battery to get started. The ESP8266 WiFi Module is a self contained SOC with integrated TCP/IP protocol stack that can give access to your WiFi network. One of the major feature of Uno WiFi is the support of OTA (Over-the-air) programming for Arduino sketches and for Wifi firmware.

Summary

Arduino Microcontroller

Microcontroller	ATmega328
Architecture	AVR
Operating Voltage	5 V
Flash Memory	32 KB
SRAM	2 KB
Clock Speed	16 MHz
Digital I/O Pins	14, with 6 PWM and UART
Analog Input Pins	6
EEPROM	1 KB
DC Current per I/O	40 mA

Microprocessor

Processor	ESP8266
Architecture	Tensilica Xtensa LX106
Operating Voltage	3.3 V
Flash Memory	4 MB
RAM	8 MB instruction, 12 MB data
Clock Speed	80 MHz
WiFi	802.11 b/g/n 2.4 GHz
Wake up time	< 2ms

General

Input Voltage	5-12 V
Power Consumption	130 mA (sleepmode 80mA)
PCB Size	53 x 68.5 mm
Weight	0.028 Kg
Product Code	A000133

