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NEWS

PRODUCTS > BOARDS (/PRODUCTS/BOARDS) > ARDUINO UNO WIFI

## Arduino UNO WiFi

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The UNIO W T中中 O Board is the Arduino UNO with integrated

http://www.arduino.org/products/boards/arduino-uno-wifi#sigProldc095cd8a68 (http://www.arduino.org/products/boards/arduino-uno-wifi#sigProldc095cd8a68)



The Arduino UNO WiFi board is based on the ATmega328 and it has an integrated ESP8266 WiFi Module. If you are starting out with Arduino, or starting with IoT, this is the board to get.

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## WOULD YOU LIKE TO BUY AN ARDUINO UNO WIFI?

ONLINE STORE (HTTP://WORLD.ARDUINO.ORG/EN/ARDUINO-UNO-PRO.HTML)

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FIND DISTRIBUTORS (HTTP://ARDUINO.ORG/BUY/DISTRIBUTORS)

OVERVIEW

**TECHNICAL SPECIFICS** 

DOCUMENTATION

LEARNING

Overview

The Arduino Uno Wi-Fi is the new Arduino Uno with an integrated Wi-Fi module! The board is based on the ATmega328P (datasheet (http://www.atmel.com/images/Atmel-8271-8-bit-AVR-Microcontroller-ATmega48A-48PA-88A-88PA-168A-168PA-328-328P\_datasheet\_Complete.pdf)) with an ESP8266 Wi-Fi Module integrated (datasheet (http://download.arduino.org/products/UNOWIFI/OA-ESP8266-Datasheet-EN-v4.3.pdf)). 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 or power it with an AC-to-DC adapter or

pattery to get started.

(/) HOME PRODUCTS > BUY > DOWNLOAD LEARNING > FORUM MAKERS BLOG NEWSROOM > FOUNDATION The FSP8266 Wi-Fi Module is a self contained SoC with integrated TCP/IP protocol stack





that can give access to your Wi-Fi network. (Or the device can act as an access point.) One useful feature of Uno Wi-Fi is support for OTA (over-the-air) programming, either for transfer of Arduino sketches or Wi-Fi firmware.

ARDUINO 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	< 2 ms

ARDUINO MICROCONTROLLER		
Microcontroller	ATmega328	
Architecture	Atmel AVR 8-bit	
Operating Voltage	5 V	
Flash memory	32 KB	
SRAM	2 KB	
Clock Speed	16 MHz	
Analog I/O Pins	6	
EEPROM	1 KB	

GENERAL	
Digital I/O Pins	20
PWM Output	6
Power Consumption	93 mA
PCB Size	53 x 68.5 mm
Weight	0.025 Kg
Product Code	A000133

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If you couldn't find what you were looking for, please see our Forum Section

You need to download the software (/download) and follow this step by step guide (/learning/tutorials/first-steps-with-arduino-ide).

WHICH CABLE USED TO PROGRAM AND / OR POWER?

HOW TO RECOVER A BOARD BLOCKED

(http://http://http://https://https://https://https://https://http://https://h



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## DID YOU ENJOY YOURSELF WITH ARDUINO? JOIN THE COMMUNITY!

SHARE YOUR PROJECT (MAILTO: MAKERS@ARDUINO.ORG)

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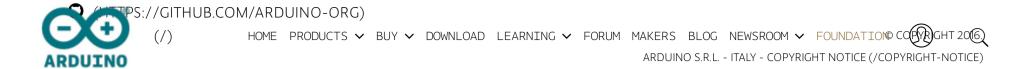
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