



HOME PRODUCTS ▼ BUY ▼ DOWNLOAD LEARNING ▼ FORUM MAKERS BLOG NEWSROOM ▼ FOUNDATION



NEWS

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

(<http://http://imgur.com/gallery/psu1r?mfp=true&%2Fwww.arduino.org%2Fproducts%2Fboards%2Farduino-uno-wifi&via=ArduinoOrg>)

The UNO WiFi board is the Arduino UNO with integrated

View the embedded image gallery online at:

<http://www.arduino.org/products/boards/arduino-uno-wifi#sigProIdc095cd8a68>

(<http://www.arduino.org/products/boards/arduino-uno-wifi#sigProIdc095cd8a68>)



For beginner
(/)
and advanced users
alike.

HOME PRODUCTS ▼ BUY ▼ DOWNLOAD LEARNING ▼ FORUM MAKERS BLOG NEWSROOM ▼ FOUNDATION



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.

NEWS



(/)

[HOME](#) [PRODUCTS](#) [BUY](#) [DOWNLOAD](#) [LEARNING](#) [FORUM](#) [MAKERS](#) [BLOG](#) [NEWSROOM](#) [FOUNDATION](#)

WOULD YOU LIKE TO BUY AN ARDUINO UNO WIFI?

[ONLINE STORE \(HTTP://WORLD.ARDUINO.ORG/EN/ARDUINO-UNO-PRO.HTML\)](http://world.arduino.org/en/arduino-uno-pro.html)[FIND DISTRIBUTORS \(HTTP://ARDUINO.ORG/BUY/DISTRIBUTORS\)](http://arduino.org/buy/distributors)

NEWS

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

battery to get started.



(/)

HOME PRODUCTS ▾ BUY ▾ DOWNLOAD LEARNING ▾ FORUM MAKERS BLOG NEWSROOM ▾ FOUNDATION



The ESP8266 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

NEWS



Digital Current per I/O
Pin (V)

40 mA

HOME

PRODUCTS ▼

BUY ▼

DOWNLOAD

LEARNING ▼

FORUM

MAKERS

BLOG

NEWSROOM ▼

FOUNDATION



NEWS



BUY ▼ DOWNLOAD LEARNING ▼
HOW DO I UPLOAD A SKETCH?



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

NEWS

OTHER PRODUCTS YOU MIGHT BE INTERESTED IN



```
(/products
/accessories
/arduino-
robot-lcd)
```

Arduino TIAN



Arduino LUCKY SHIELD
(/products/shields/arduino-lucky-shield)

Arduino INDUSTRIAL 101
(/products/boards/arduino-industrial-101)

(/products/boards/arduino-tian)

Holder Type Uno
(/products/accessories/holder-type-uno)

Arduino Robot LCD
(/products/accessories/arduino-robot-lcd)

NEWS



(/)

HOME PRODUCTS ▼ BUY ▼ DOWNLOAD LEARNING ▼ FORUM MAKERS BLOG NEWSROOM ▼ FOUNDATION



DID YOU ENJOY YOURSELF WITH ARDUINO? JOIN THE COMMUNITY!

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

NEWS

DISCOVER OUR
WHOLE STORY

GET IN TOUCH
WITH US

FIND ALL OUR OPEN
POSITIONS AND JOIN US!

NEWSLETTER

Email Address*

ABOUT US (HTTP://WWW.ARDUINO.ORG/ABOUT-US) CONTACT US (HTTP://WWW.ARDUINO.ORG/CONTACT-US) JOBS (HTTP://WWW.ARDUINO.ORG/JOBS) RESEARCH (HTTP://WWW.ARDUINO.ORG/ARDUINO-RESEARCH) SUPPORT (HTTP://WWW.ARDUINO.ORG/SUPPORT)

f (HTTPS://WWW.FACEBOOK.COM/ARDUINO.ORG) **t** (HTTPS://TWITTER.COM/ARDUINOORG)
g+ (HTTPS://PLUS.GOOGLE.COM/108746200012741458777) **ig** (HTTPS://WWW.INSTAGRAM.COM/ARDUINOORG/)
YouTube (HTTPS://WWW.YOUTUBE.COM/C/ARDUINOORGPAGE) **in** (HTTPS://WWW.LINKEDIN.COM/COMPANY/ARDUINO-SRL)
p (HTTPS://WWW.PINTEREST.COM/ARDUINO/) **t** (HTTP://ARDUINO.TUMBLR.COM/)



<https://github.com/arduino-org>

(/)

HOME

PRODUCTS ▾

BUY ▾

DOWNLOAD

LEARNING ▾

FORUM

MAKERS

BLOG

NEWSROOM ▾

FOUNDATION

COPYRIGHT 2016

ARDUINO S.R.L. - ITALY - COPYRIGHT NOTICE (/COPYRIGHT-NOTICE)

NEWS