



sensor network connected to your office or home router, or if you want to create a Bluetooth® Low Energy device sending data to a cellphone, the Arduino UNO WiFi Rev 2 is your one-stop-solution for many of the basic IoT application scenarios. QUICKSTART GUIDE \rightarrow $\mathbf{PINOUT} \ \ \oplus$

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Main Features		

The Arduino UNO WiFi Rev 2 features the secure ATECC608 crypto chip accelerator, using the ATmega4809 8-bit microcontroller from Microchip. It also has an onboard IMU (Inertial Measurement Unit), LSM6DS3TR and features the NINA-W102 Wi-Fi & Bluetooth® module from u-Blox.

ATmega4809 A powerful microcontroller

from the megaAVR®

0-series. **DATASHEET** \bot

with low-power architecture

Rev 2.

Tech Specs

Here you will find the technical

specifications for the Arduino UNO WiFi

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WiFi Rev2 board.

u-blox NINA-W102

Enables Bluetooth® and Wi-

Fi connectivity for the UNO

Board

Microcontroller

USB connector

accelerometer & gyroscope. **DATASHEET 丛**

Name

SKU

USB-B

ATmega4809

LSM6DS3TR

The LSM6DS3TR is a low-

power IMU module that

includes a 3D digital

ATECC608 crypto chip

The ATECC608 crypto chip

makes sure your data remains

secure and private, and can

store up to 16 keys in an

EEPROM array.

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ABX00021

Arduino® UNO WiFi Rev 2

	OSB connector	OSD D				
		Built-in LED Pin	25			
	Di	Digital I/O Pins	14			
	Pins	Analog input pins	6			
		PWM pins	5			
		Bluetooth®	Nina W102 uBlox module			
		Wi-Fi	Nina W102 uBlox module			
		Secure element	ATECC608A			
		IMU	LSM6DS3TR			
		UART	Yes			
		12C	Yes			
		SPI	Yes			
	Power Clock speed Memory Dimensions	I/O Voltage	5V			
		Input voltage (nominal)	6-20V			
		DC Current per I/O Pin	20 mA			
		Power Supply Connector	Barrel Plug			
		Processor	ATmega4809 16 MHz			
		ATmega4809	6KB SRAM, 48KB flash, 256 bytes EEPROM			
		Nina W102 uBlox module	448 KB ROM, 520KB SRAM, 2MB Flash			
		Weight	25 g			
		Width	53.4 mm			
		Length	68.6 mm			
atibility						
& Cloud						
The following software tools allow you to program your						



First Steps

Quickstart Guide

All you need to know to get started

with your new Arduino board.

Hardware

board both online and offline.

Arduino IDE

4 Relays Shield

The hardware listed below is compatible with this product.



Arduino CLI

Web Editor

Essentials

Suggested Libraries

₩ WIFININA

Arduino Basics

Built-in Examples

commands.

Learn

Built-in Examples are sketches

included in the Arduino IDE and

demonstrate all basic Arduino

Discover interesting articles,

the Arduino ecosystem.

Ⅲ Language References

constants), and structure.

principles and techniques related to

Arduino programming language can

be divided in three main parts:

functions, values (variables and

Motor Shield Rev3

M ArduinoBLE The ArduinoBLE library is designed

hardware enabled for Bluetooth®

Low Energy and Bluetooth® 4.0 and

The WiFiNINA library is designed to

use the NINA-W102 module, which

allows your Arduino to connect to

accepting incoming connections or

the Internet, either as a server

a client making outgoing ones.

for Arduino boards that have

Arduino_LSM6DS3

The Arduino_LSM6DS3 library

module, which includes a 3-axis

accelerometer and gyroscope.

allows you to use the LSM6DS3 IMU

above.

ArduinoMqttClient The ArduinoMqttClient library allows you to send and receive MQTT messages using Arduino.

Connect to brokers, publish and

subscribe to topics. A great library

for devices to communicate over

Tutorials

the Internet.

A quick tutorial on how to setup your UNO WiFi Rev 2 board with a Chromebook, using the Web Editor & the Arduino

Host a Web Server on the Arduino UNO WiFi Rev2

Learn how to access your board through a browser on the

UNO WiFi Rev 2 Chromebook Setup

Installation

Web Server

Chrome App.

Chromebook

same network.

Wi-Fi

IoT

Interactive Viewer

the product.

Open Viewer

Pinout Diagram

functions and the

Open Diagram

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your product.

A diagram showing the

arrangement of the pins on

Interact with the schematics,

the PCB and a 3D model of

Scanning Networks with Arduino UNO WiFi Rev2 Learn how to setup your board to scan nearby Wi-Fi networks, and print them out in the Serial Monitor.

Wi-Fi

IoT

Web Server Using Access Point with Arduino UNO WiFi Rev2

allowing other devices to connect to it.

Access Point

Sending Data over MQTT

WiFi Rev2 and another device.

Wi-Fi

MQTT

Wi-Fi

Learn how to use the MQTT (Message Queuing Telemetry

Transport) protocol to send data between the Arduino UNO

Resources

Learn how to set up your board as an access point (AP),

Schematics

Downloads

↗ HELP CENTER

Mhen I create an access point with WiFi Nina, it fails

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CAD Files

Check and update the firmware for WiFiNINA and WiFi101

Troubleshooting

Full Pinout

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how to Create a simple web server with static IP and

control builtinLED using WiFiNINA library

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