

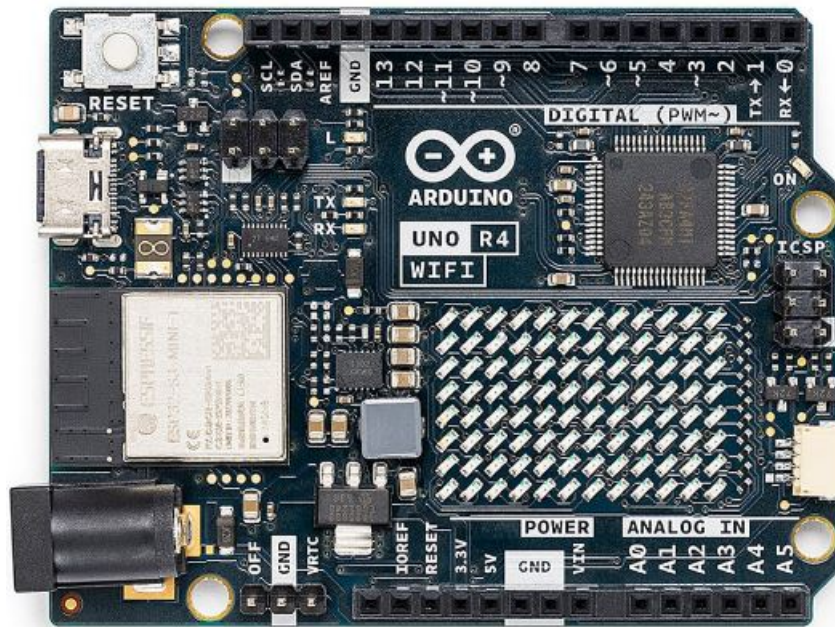
# ARDUINO ABX00087 UNO R4 WiFi User Guide

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## Product Information

**Product Reference Manual SKU:** ABX00087

**Description:** Target areas: Maker, beginner, education

### Features:

- The R7FA4M1AB3CFM#AA0, often referred to as RA4M1 in this datasheet, is the main MCU on the UNO R4 WiFi, connected to all pin headers on the board as well as all communication buses.
- Memory: 256 kB Flash Memory, 32 kB SRAM, 8 kB Data Memory (EEPROM)
- Peripherals: Capacitive Touch Sensing Unit (CTS), USB 2.0 Full-Speed Module (USBFS), 14-bit ADC, Up to 12-bit DAC, Operational Amplifier (OPAMP)
- Communication: 1x UART (pin D0, D1), 1x SPI (pin D10-D13, ICSP header), 1x I2C (pin A4, A5, SDA, SCL), 1x CAN (pin D4, D5, external transceiver is required)

For more technical details on the R7FA4M1AB3CFM#AA0 microcontroller, visit the [R7FA4M1AB3CFM#AA0 datasheet](#).

### The ESP32-S3-MINI-1-N8 features:

- This module acts as a secondary MCU on the UNO R4 WiFi and communicates with the RA4M1 MCU using a logic level translator.
- Note that this module operates on 3.3 V as opposed to the RA4M1's 5 V operating voltage.

For more technical details on the ESP32-S3-MINI-1-N8 module, visit the [ESP32-S3-MINI-1-N8 datasheet](#).

## Product Usage Instructions

### Recommended Operating Conditions:

Symbol	Description	Min	Typ	Max
VIN	Input voltage from VIN pad / DC Jack	6	7.0	24
VUSB	Input voltage from USB connector	4.8	5.0	5.5
TOP	Operating Temperature	-40	25	85

### Functional Overview:

The operating voltage for the RA4M1 is fixed at 5 V to be hardware compatible with shields, accessories, and circuits based on previous Arduino UNO boards.

### Board Topology:

Front View:

Ref. U1 U2 U3 U4 U5 U6 U\_LEDMATRIX M1 PB1 JANALOG JDIGITAL JOFF J1 J2 J3 J5 J6 DL1

### Top View:

Ref. DL2 LED RX (serial receive), DL3 LED Power (green), DL4 LED SCK (serial clock), D1 PMEG6020AELRX Schottky Diode, D2 PMEG6020AELRX Schottky Diode, D3 PRTR5V0U2X,215 ESD Protection

### ESP Header:

The header located close to the RESET button can be used to access the ESP32-S3 module directly. The pins accessible are:

- ESP\_IO42 – MTMS debugging (Pin 1)
- ESP\_IO41 – MTDI debugging (Pin 2)
- ESP\_TXD0 – Serial Transmit (UART) (Pin 3)
- ESP\_DOWNLOAD – boot (Pin 4)
- ESP\_RXD0 – Serial Receive (UART) (Pin 5)
- GND – ground (Pin 6)

### Description

The Arduino® UNO R4 WiFi is the first UNO board to feature a 32-bit microcontroller and an ESP32-S3 Wi-Fi® module (ESP32-S3-MINI-1-N8). It features a RA4M1 series microcontroller from Renesas (R7FA4M1AB3CFM#AA0), based on a 48 MHz Arm® Cortex®-M4 microprocessor. The UNO R4 WiFi's memory is larger than its predecessors, with 256 kB flash, 32 kB SRAM and 8 kB of EEPROM. The RA4M1's operating voltage is fixed at 5 V, whereas the ESP32-S3 module is 3.3 V. Communication between these two MCUs are performed via a logic level translator (TXB0108DQSR).

### Target areas:

Maker, beginner, education

### Features

The R7FA4M1AB3CFM#AA0, often referred to as RA4M1 in this datasheet, is the main MCU on the UNO R4 WiFi, connected to all pin headers on the board as well as all communication buses.

### Overview

- 48 MHz Arm® Cortex®-M4 microprocessor with a floating point unit (FPU) 5 V operating voltage
- Real-time Clock (RTC)
- Memory Protection Unit (MPU)
- Digital-to-analog Converter (DAC)

## Memory

- 256 kB Flash Memory
- 32 kB SRAM
- 8 kB Data Memory (EEPROM)

## Peripherals

- Capacitive Touch Sensing Unit (CTSU)
- USB 2.0 Full-Speed Module (USBFS)
- 14-bit ADC
- Up to 12-bit DAC
- Operational Amplifier (OPAMP)

## Power

- Operating voltage for RA4M1 is 5 V
- Recommended input voltage (VIN) is 6-24 V
- Barrel jack connected to VIN pin (6-24 V)
- Power via USB-C® at 5 V

## Communication

- 1x UART (pin D0, D1)
- 1x SPI (pin D10-D13, ICSP header)
- 1x I2C (pin A4, A5, SDA, SCL)
- 1x CAN (pin D4, D5, external transceiver is required)

See the full datasheet for the R7FA4M1AB3CFM#AA0 in the link below:

- [R7FA4M1AB3CFM#AA0 datasheet](#)

The ESP32-S3-MINI-1-N8 is the secondary MCU with a built-in antenna for Wi-Fi® & Bluetooth® connectivity. This module operates on 3.3 V and communicates with the RA4M1 using a logic level translator (TXB0108DQSR).

## Overview

- Xtensa® dual-core 32-bit LX7 microprocessor
- 3.3 V operating voltage

- 40 MHz crystal oscillator

## Wi-Fi®

- Wi-Fi® support with 802.11 b/g/n standard (Wi-Fi® 4)
- Bit rate at up to 150 Mbps
- 2.4 GHz band

## Bluetooth®

- Bluetooth® 5

See the full datasheet for the ESP32-S3-MINI-1-N8 in the link below:

- [ESP32-S3-MINI-1-N8 datasheet](#)

## The Board

### Application Examples

The UNO R4 WiFi is part of the first UNO series of 32-bit development boards, being previously based on 8-bit AVR microcontrollers. There are thousands of guides, tutorials and books written about the UNO board, where the UNO R4 WiFi continues its legacy.

The board features 14 digital I/O ports, 6 analog channels, dedicated pins for I2C, SPI and UART connections. It has a significantly larger memory: 8 times more flash memory (256 kB) and 16 times more SRAM (32 kB). With a 48 MHz clock speed, it is also 3x faster than its predecessors.

In addition, it features an ESP32-S3 module for Wi-Fi® & Bluetooth® connectivity, as well as a built-in 12×8 LED matrix, making one of the most visually unique Arduino board to date. The LED matrix is fully programmable, where you can load anything from still frames to custom animations.

**Entry-level projects:** If this is your first project within coding and electronics, the UNO R4 WiFi is a good fit. It is easy to get started with, and it has a lot of online documentation.

**Easy IoT applications:** build projects without writing any networking code in the Arduino IoT Cloud. Monitor your board, connect it with other boards and services, and develop cool IoT projects.

**LED Matrix:** the 12×8 LED matrix on the board can be used for showing animations, text scrolling, create mini-games and much more, being the perfect feature to give your project more personality.

### Related Products

- [UNO R3](#)
- [UNO R3 SMD](#)
- [UNO R4 Minima](#)

## Rating

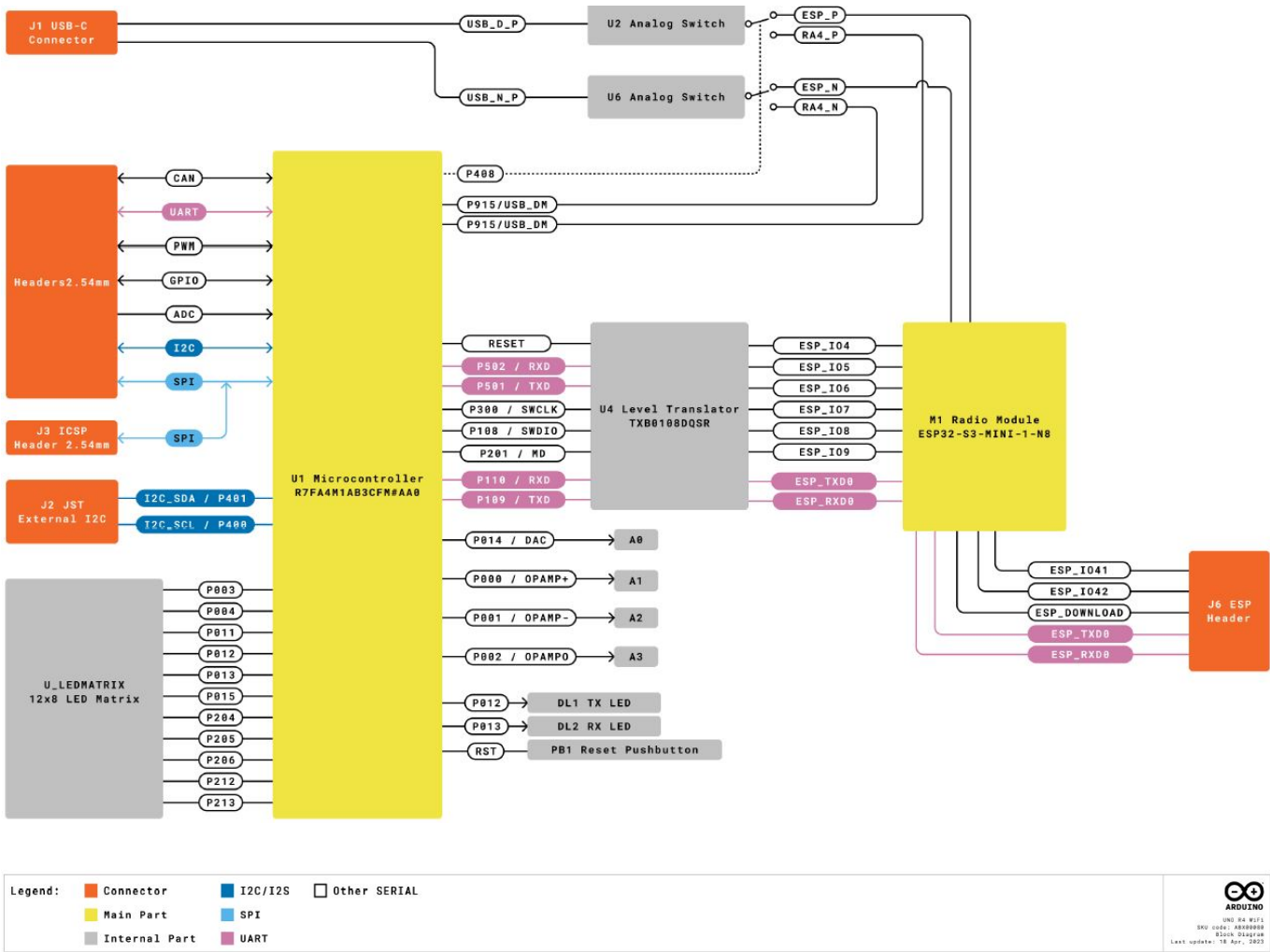
### Recommended Operating Conditions

Symbol	Description	Min	Typ	Max	Unit
VIN	Input voltage from VIN pad / DC Jack	6	7.0	24	V
VUSB	Input voltage from USB connector	4.8	5.0	5.5	V
TOP	Operating Temperature	-40	25	85	°C

**Note:** VDD controls the logic level and is connected to the 5V power rail. VAREF is for the analog logic.

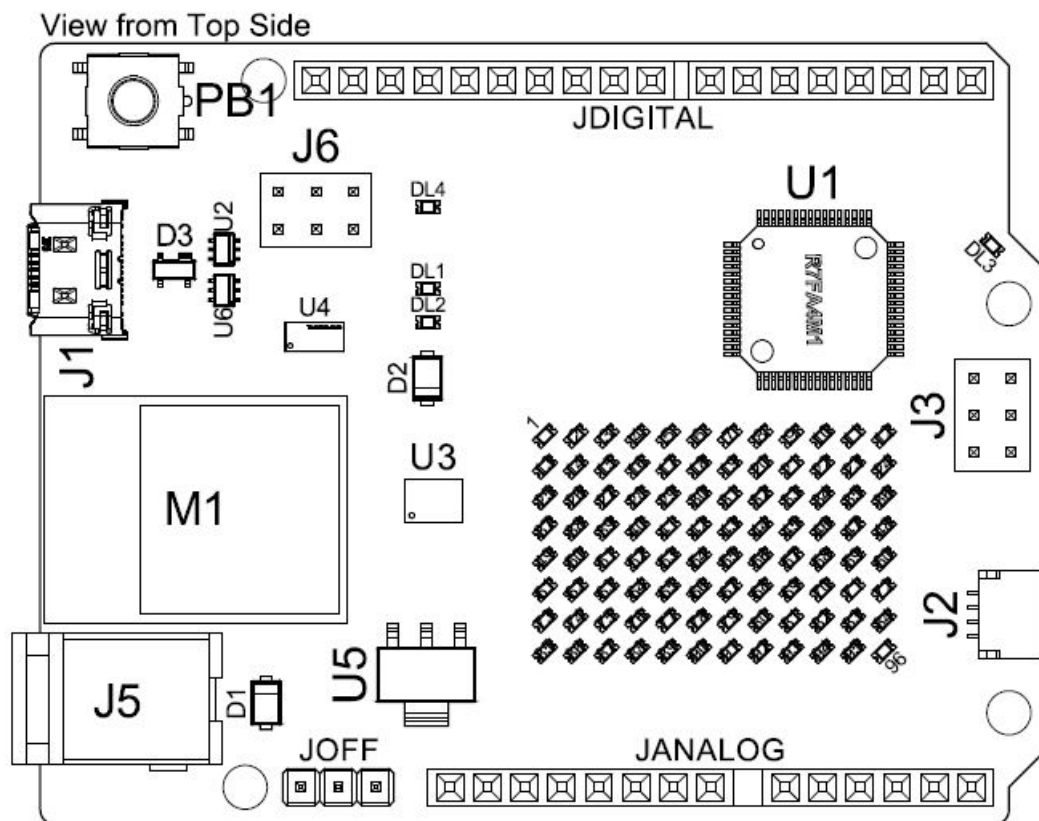
Functional Overview

Block Diagram



Board Topology

Front View



*Top View of Arduino UNO R4 WiFi*

Ref.	Description
U1	R7FA4M1AB3CFM#AA0 Microcontroller IC
U2	NLASB3157DFT2G Multiplexer
U3	ISL854102FRZ-T Buck Converter
U4	TXB0108DQSR logic level translator (5 V – 3.3 V)
U5	SGM2205-3.3XKC3G/TR 3.3 V linear regulator
U6	NLASB3157DFT2G Multiplexer
U_LEDMATRIX	12×8 LED Red Matrix
M1	ESP32-S3-MINI-1-N8
PB1	RESET Button
JANALOG	Analog input/output headers
JDIGITAL	Digital input/output headers
JOFF	OFF, VRTC header
J1	CX90B-16P USB-C® connector
J2	SM04B-SRSS-TB(LF)(SN) I2C connector
J3	ICSP header (SPI)
J5	DC Jack
J6	ESP header
DL1	LED TX (serial transmit)

DL2	LED RX (serial receive)
DL3	LED Power (green)
DL4	LED SCK (serial clock)
D1	PMEG6020AELRX Schottky Diode
D2	PMEG6020AELRX Schottky Diode
D3	PRTR5V0U2X,215 ESD Protection

## Microcontroller (R7FA4M1AB3CFM#AA0)

The UNO R4 WiFi is based on the 32-bit RA4M1 series microcontroller, R7FA4M1AB3CFM#AA0, from Renesas, which uses a 48 MHz Arm® Cortex®-M4 microprocessor with a floating point unit (FPU).

The operating voltage for the RA4M1 is fixed at 5 V as to be hardware compatible with shields, accessories & circuits based on previous Arduino UNO boards.

The R7FA4M1AB3CFM#AA0 features:

- 256 kB flash / 32 kB SRAM / 8 kB data flash (EEPROM)



- Real-time Clock (RTC)
- 4x Direct Memory Access Controller (DMAC)
- 14-bit ADC
- Up to 12-bit DAC
- OPAMP
- CAN bus

For more technical details on this microcontroller, visit the Renesas – RA4M1 series official documentation.

## 6 Wi-Fi® / Bluetooth® Module (ESP32-S3-MINI-1-N8)

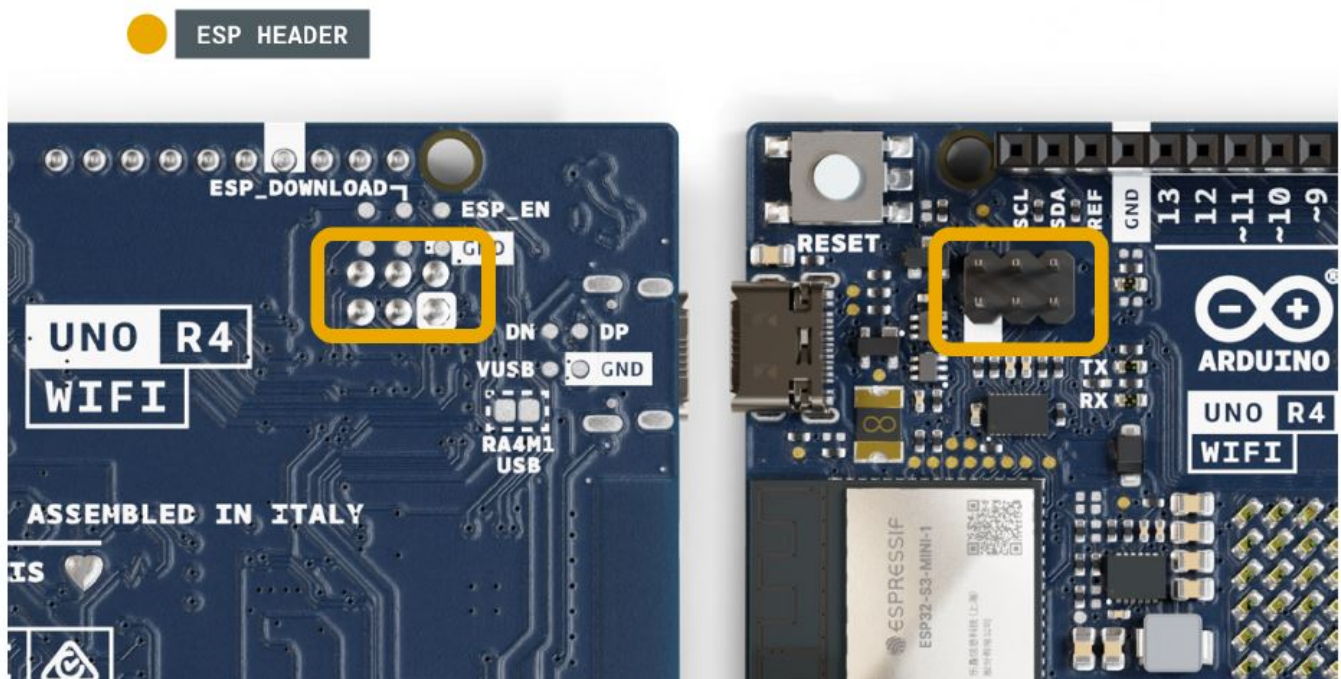
The Wi-Fi® / Bluetooth® LE module on the UNO R4 WiFi is from the ESP32-S3 SoCs. It features the Xtensa® dual-core 32-bit LX7 MCU, a built-in antenna and support for 2.4 GHz bands.

The ESP32-S3-MINI-1-N8 features:

- Wi-Fi® 4 – 2.4 GHz band
- Bluetooth® 5 LE support
- 3.3 V operating voltage 384 kB ROM
- 512 kB SRAM
- Up to 150 Mbps bit rate

This module acts as a secondary MCU on the UNO R4 WiFi, and communicates with the RA4M1 MCU using a logic level translator. Note that this module operates on 3.3 V as opposed to the RA4M1's 5 V operating voltage.

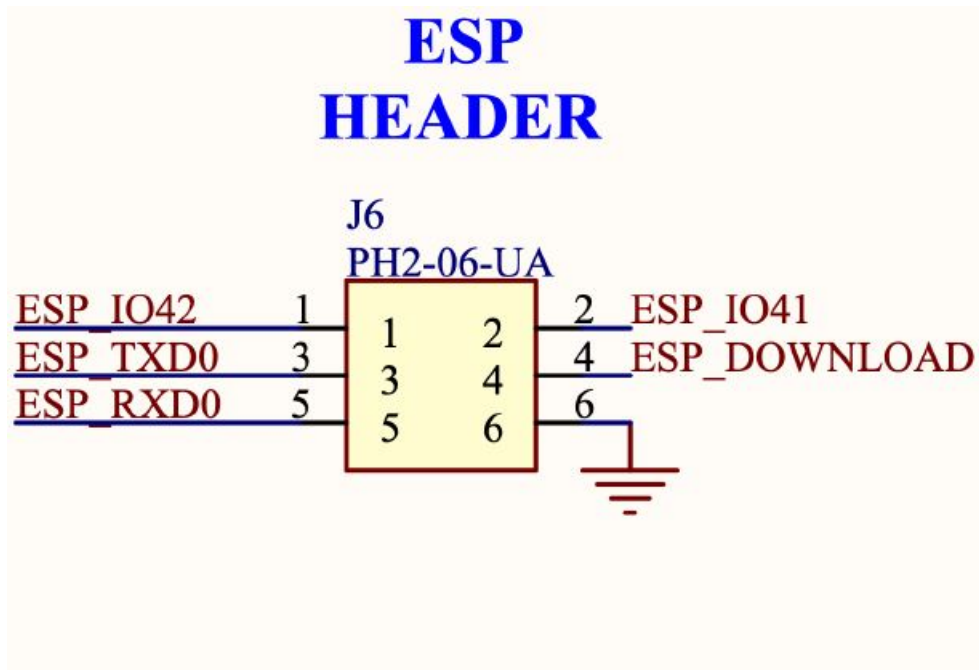
### ESP Header



ESP header.

The header located close to the RESET button can be used to access the ESP32-S3 module directly. The pins accessible are:

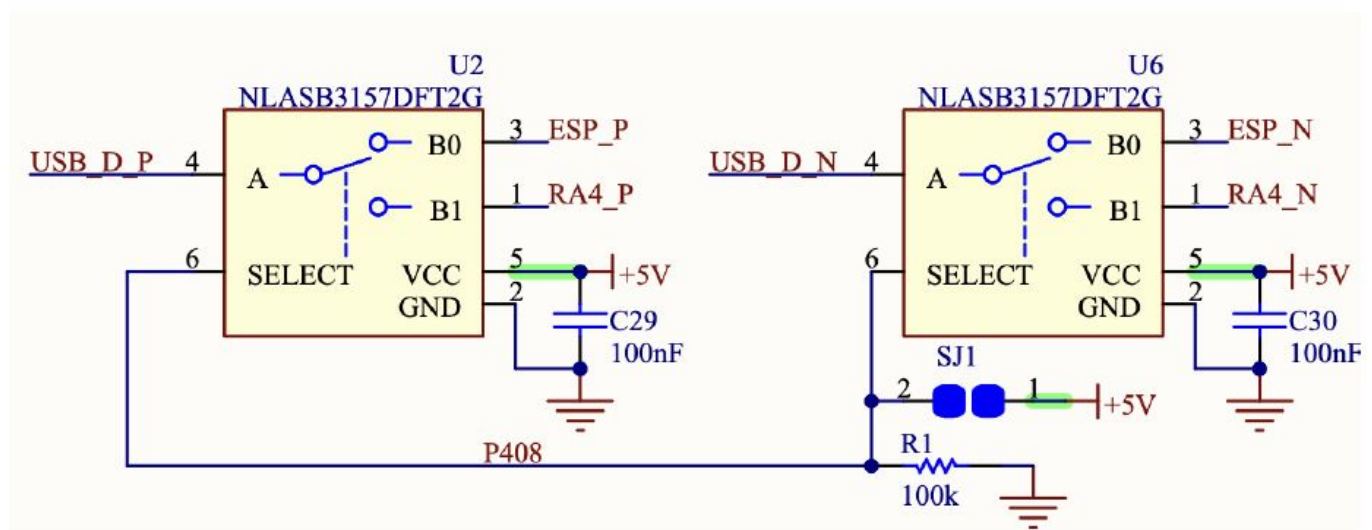
- ESP\_IO42 – MTMS debugging (Pin 1)
- ESP\_IO41 – MTDI debugging (Pin 2)
- ESP\_TXD0 – Serial Transmit (UART) (Pin 3)
- ESP\_DOWNLOAD – boot (Pin 4)
- ESP\_RXD0 – Serial Receive (UART) (Pin 5)
- GND – ground (Pin 6)



ESP header (schematic)

### USB Bridge

When programming the UNO R4 WiFi, the RA4M1 MCU is programmed via the ESP32-S3 module by default. The U2 and U6 switches can switch the USB communication to go directly to the RA4M1 MCU, by writing a high state to the P408 pin (D40).



Soldering together the SJ1 pads permanently sets the USB communication directly to the RA4M1, bypassing the ESP32-S3.

### USB Connector

The UNO R4 WiFi has one USB-C® port, used to power and program your board as well as sending & receiving

serial communication.

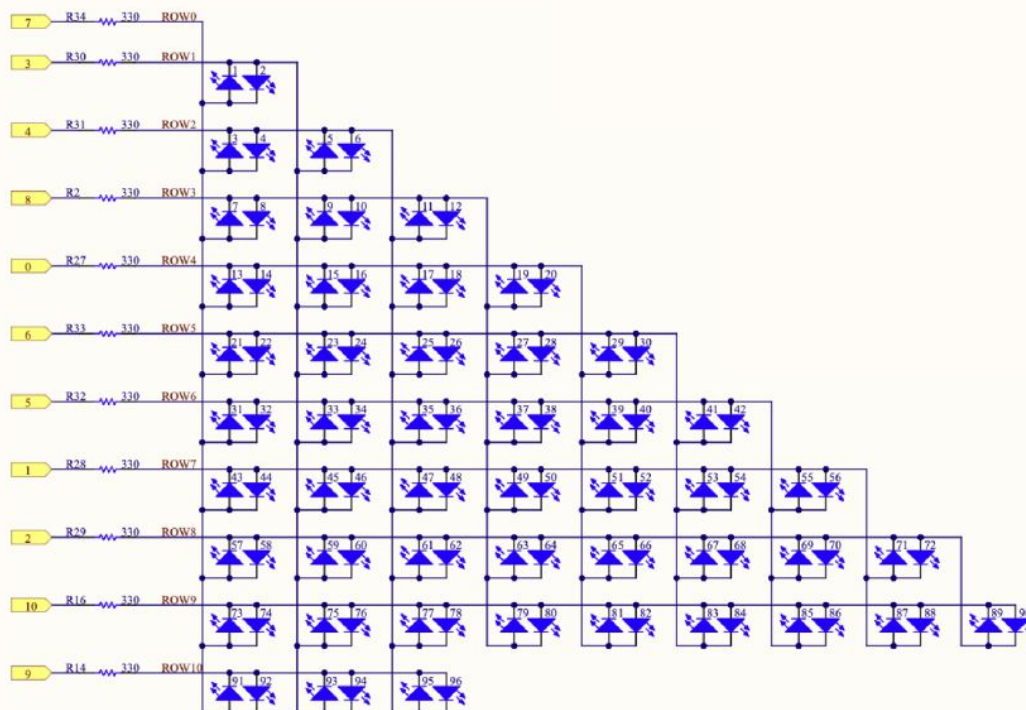
Note: The board should not be powered with more than 5 V via the USB-C® port.

## LED Matrix

The UNO R4 WiFi features a 12×8 matrix of red LEDs (U\_LEDMATRIX), connected using the technique known as charlieplexing.

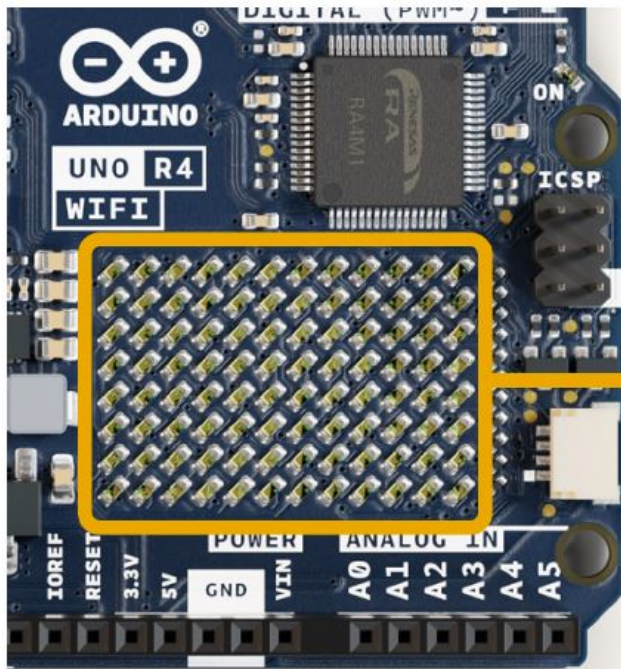
The following pins on the RA4M1 MCU are used for the matrix:

- P003
- P004
- P011
- P012
- P013
- P015
- P204
- P205
- P206
- P212
- P213



LED matrix schematics.

These LEDs can be accessed as an array, using a specific library. See the mapping below:



1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81	82	83	84
85	86	87	88	89	90	91	92	93	94	95	96

*LED matrix number mapping.*

This matrix can be used for a number of projects and prototyping purposes, and supports animation, simple game designs and scrolling text among other things.

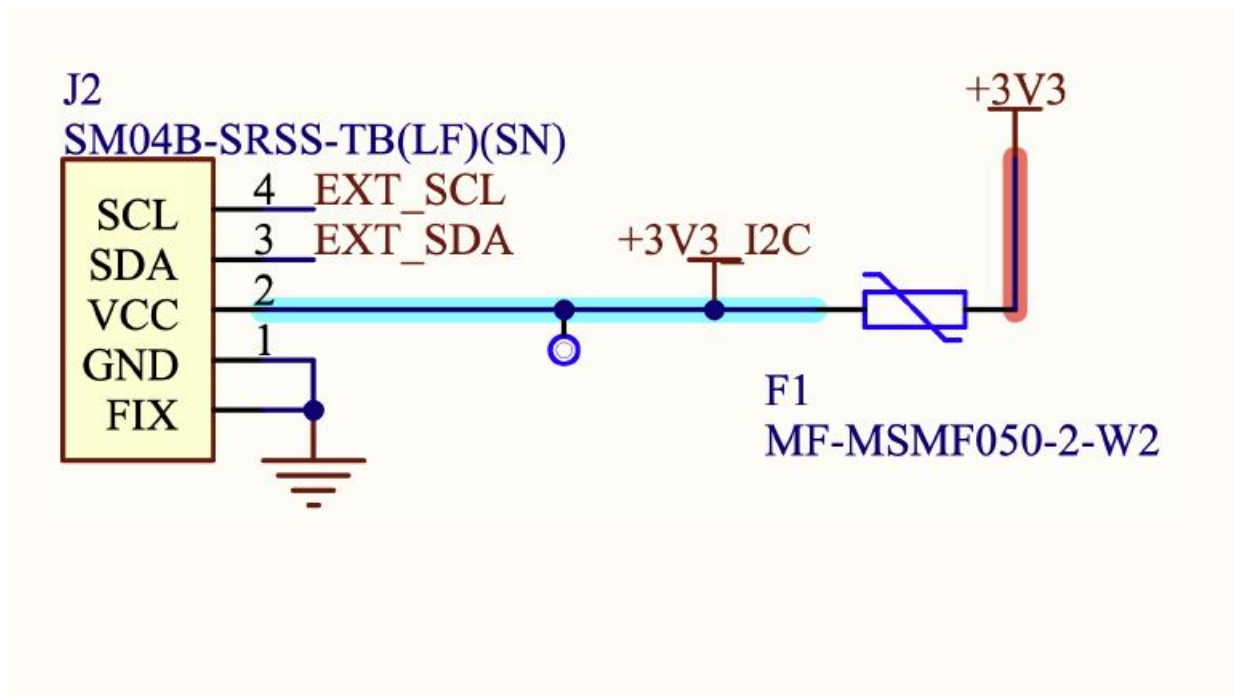
### Digital Analog Converter (DAC)

The UNO R4 WiFi has a DAC with up to 12-bit resolution attached to the A0 analog pin. A DAC is used to convert a digital signal to an analog signal.  
The DAC can be used for signal generation for e.g. audio applications, like generating and altering sawtooth wave.

### I2C Connector

The I2C connector SM04B-SRSS-TB(LF)(SN) is connected to a secondary I2C bus on the board. Note that this connector is powered via 3.3 V.





*I2C connector.*

This connector also shares the following pin connections:

#### JANALOG header

- A4
- A5

#### JDIGITAL header

- SDA
- SCL

**Note:** as A4/A5 is connected to the main I2C bus, these should not be used as ADC inputs whenever the bus is in use. You can however connect I2C devices to each of these pins and connectors simultaneously.

### Power Options

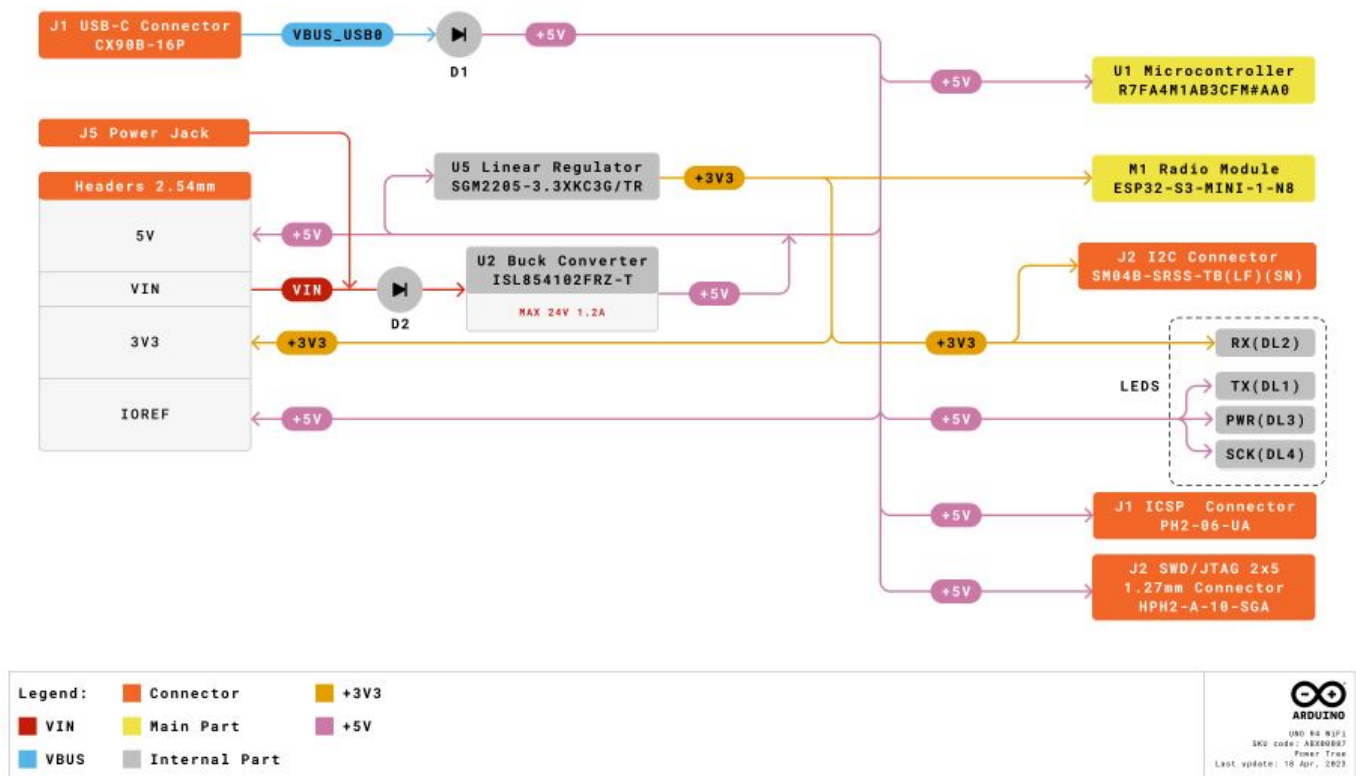
Power can either be supplied via the VIN pin, or via USB-C® connector. If power is supplied via VIN, the ISL854102FRZ buck converter steps the voltage down to 5 V.

Both VUSB and VIN pins are connected to the ISL854102FRZ buck converter, with Schottky diodes in place for reverse polarity & overvoltage protection respectively.

Power via USB supplies about ~4.7 V (due to Schottky drop) to the RA4M1 MCU.

The linear regulator (SGM2205-3.3XKC3G/TR) converts 5 V from either the buck converter or USB, and provides 3.3 V to a number of components, including the ESP32-S3 module.

#### Power Tree



Arduino UNO R4 WiFi power tree.

## Pin Voltage

The general operating voltage for UNO R4 WiFi is 5 V, however the ESP32-S3 module's operating voltage is 3.3 V.

**Note:** It is very important that ESP32-S3's pins (3.3 V) do not come in contact with any of the RA4M1's pins (5 V), as this may damage the circuits.

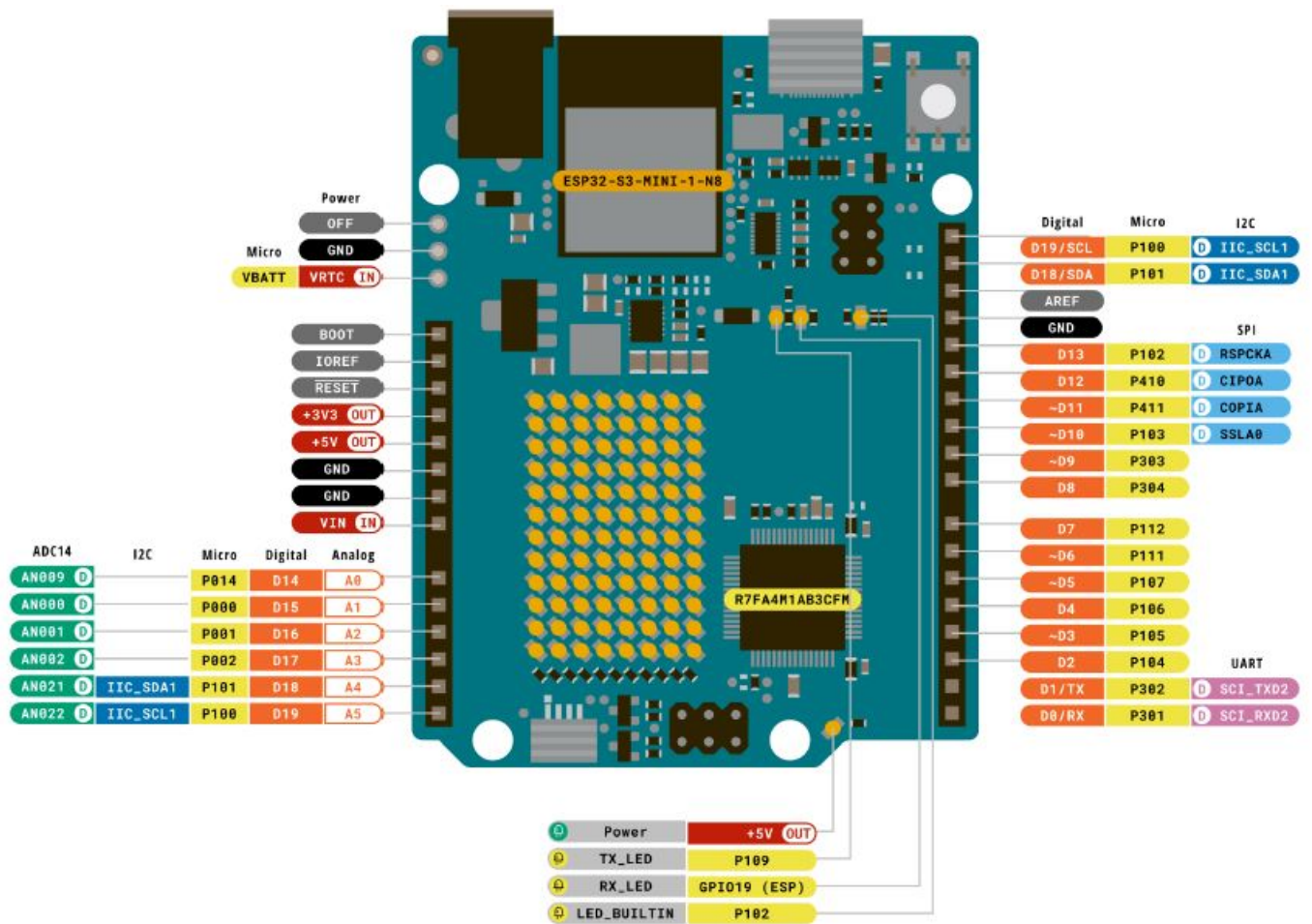
## Pin Current

The GPIOs on the R7FA4M1AB3CFM#AA0 microcontroller can safely handle up to 8 mA of current. Never connect devices that draw higher current directly to a GPIO as this may damage the circuit.

For powering e.g. servo motors, always use an external power supply.

## Mechanical Information

### Pinout



<b>Legend:</b>	<b>Digital</b>	<b>I2C</b>	<b>Other SERIAL</b>
<b>Power</b>	<b>Analog</b>	<b>SPI</b>	<b>Analog</b>
<b>Ground</b>	<b>Main Part</b>	<b>UART/USART</b>	<b>PWM/Timer</b>

UNO R4 WiFi  
 SKU code: ABX00087  
 Pinout  
 Last update: 21 Jun, 2023

Pinout for UNO R4 WiFi.

## Analog

Pin	Function	Type	Description
1	BOOT	NC	Not Connected
2	IOREF	IOREF	Reference for digital logic V – connected to 5 V
3	Reset	Reset	Reset
4	+3V3	Power	+3V3 Power Rail
5	+5V	Power	+5V Power Rail
6	GND	Power	Ground
7	GND	Power	Ground
8	VIN	Power	Voltage Input
9	A0	Analog	Analog input 0 / DAC
10	A1	Analog	Analog input 1 / OPAMP+
11	A2	Analog	Analog input 2 / OPAMP-
12	A3	Analog	Analog input 3 / OPAMPOut
13	A4	Analog	Analog input 4 / I2C Serial Datal (SDA)
14	A5	Analog	Analog input 5 / I2C Serial Clock (SCL)

## Digital



Pin	Function	Type	Description
1	SCL	Digital	I2C Serial Clock (SCL)
2	SDA	Digital	I2C Serial Data (SDA)
3	AREF	Digital	Analog Reference Voltage
4	GND	Power	Ground
5	D13/SCK/CANRX0	Digital	GPIO 13 / SPI Clock / CAN Receiver (RX)
6	D12/CIPO	Digital	GPIO 12 / SPI Controller In Peripheral Out
7	D11/COPI	Digital	GPIO 11 (PWM) / SPI Controller Out Peripheral In
8	D10/CS/CANTX0	Digital	GPIO 10 (PWM) / SPI Chip Select / CAN Transmitter (TX)
9	D9	Digital	GPIO 9 (PWM~)
10	D8	Digital	GPIO 8
11	D7	Digital	GPIO 7
12	D6	Digital	GPIO 6 (PWM~)
13	D5	Digital	GPIO 5 (PWM~)
14	D4	Digital	GPIO 4
15	D3	Digital	GPIO 3 (PWM~)
16	D2	Digital	GPIO 2
17	D1/TX0	Digital	GPIO 1 / Serial 0 Transmitter (TX)
18	D0/TX0	Digital	GPIO 0 / Serial 0 Receiver (RX)

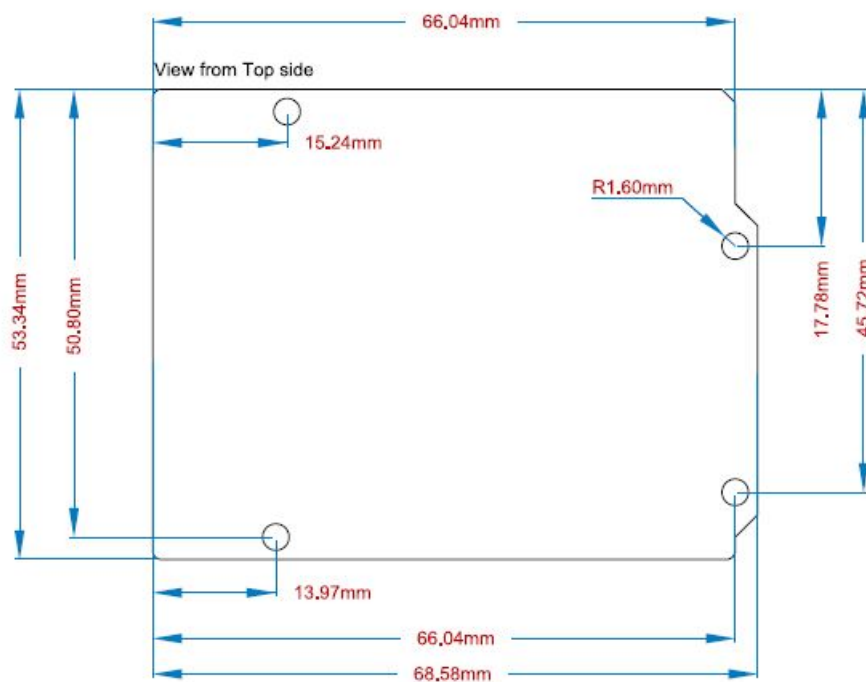
## OFF

Pin	Function	Type	Description
1	OFF	Power	For controlling power supply
2	GND	Power	Ground
1	VRTC	Power	Battery connection to power RTC only

## ICSP

Pin	Function	Type	Description
1	CIPO	Internal	Controller In Peripheral Out
2	+5V	Internal	Power Supply of 5 V
3	SCK	Internal	Serial Clock
4	COPI	Internal	Controller Out Peripheral In
5	RESET	Internal	Reset
6	GND	Internal	Ground

## Mounting Holes And Board Outline



*Top side Mechanical View of Arduino UNO R4 WiFi*

## Board Operation

### 1. Getting Started – IDE

If you want to program your UNO R4 WiFi while offline you need to install the Arduino® Desktop IDE [1]. To connect the UNO R4 WiFi to your computer, you will need a Type-C® USB cable, which can also provide power to the board, as indicated by the LED (DL1).

### 2. Getting Started – Arduino Web Editor

All Arduino boards, including this one, work out-of-the-box on the Arduino® Web Editor [2], by just installing a simple plugin.

The Arduino Web Editor is hosted online, therefore it will always be up-to-date with the latest features and support for all boards. Follow [3] to start coding on the browser and upload your sketches onto your board.

### 3. Getting Started – Arduino IoT Cloud

All Arduino IoT enabled products are supported on Arduino IoT Cloud which allows you to log, graph and

analyze sensor data, trigger events, and automate your home or business.

#### 4. Online Resources

Now that you have gone through the basics of what you can do with the board you can explore the endless possibilities it provides by checking existing projects on Arduino Project Hub [4], the Arduino Library Reference [5], and the online store [6]; where you will be able to complement your board with sensors, actuators and more.

#### 5. Board Recovery

All Arduino boards have a built-in bootloader which allows flashing the board via USB. In case a sketch locks up the processor and the board is not reachable anymore via USB, it is possible to enter bootloader mode by doubletapping the reset button right after the power-up.

### Certifications

#### 15 Declaration of Conformity CE DoC (EU)

We declare under our sole responsibility that the products above are in conformity with the essential requirements of the following EU Directives and therefore qualify for free movement within markets comprising the European Union (EU) and European Economic Area (EEA).

#### 16 Declaration of Conformity to EU RoHS & REACH 211 01/19/2021

Arduino boards are in compliance with RoHS 2 Directive 2011/65/EU of the European Parliament and RoHS 3 Directive 2015/863/EU of the Council of 4 June 2015 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Substance	Maximum Limit (ppm)
Lead (Pb)	1000
Cadmium (Cd)	100
Mercury (Hg)	1000
Hexavalent Chromium (Cr6+)	1000
Poly Brominated Biphenyls (PBB)	1000
Poly Brominated Diphenyl ethers (PBDE)	1000
Bis(2-Ethylhexyl} phthalate (DEHP)	1000
Benzyl butyl phthalate (BBP)	1000
Dibutyl phthalate (DBP)	1000
Diisobutyl phthalate (DIBP)	1000

Exemptions : No exemptions are claimed.

Arduino Boards are fully compliant with the related requirements of European Union Regulation (EC) 1907 /2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). We declare none of the SVHCs (<https://echa.europa.eu/web/guest/candidate-list-table>), the Candidate List of Substances of Very High Concern for authorization currently released by ECHA, is present in all products (and also package) in quantities totaling in a concentration equal or above 0.1%. To the best of our knowledge, we also declare that our products do not contain any of the substances listed on the “Authorization List” (Annex XIV of the REACH regulations) and Substances of Very High Concern (SVHC) in any significant amounts as specified by the Annex XVII of Candidate list published by ECHA (European Chemical Agency) 1907 /2006/EC.

## Conflict Minerals Declaration

As a global supplier of electronic and electrical components, Arduino is aware of our obligations with regards to laws and regulations regarding Conflict Minerals, specifically the Dodd-Frank Wall Street Reform and Consumer Protection Act, Section 1502. Arduino does not directly source or process conflict minerals such as Tin, Tantalum, Tungsten, or Gold. Conflict minerals are contained in our products in the form of solder, or as a component in metal alloys. As part of our reasonable due diligence Arduino has contacted component suppliers within our supply chain to verify their continued compliance with the regulations. Based on the information received thus far we declare that our products contain Conflict Minerals sourced from conflict-free areas.

## FCC Caution

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference
2. this device must accept any interference received, including interference that may cause undesired operation.

## FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment.
3. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator & your body.

User manuals for licence-exempt radio apparatus shall contain the following or equivalent notice in a conspicuous location in the user manual or alternatively on the device or both. This device complies with Industry Canada licence-exempt RSS standard(s).

**Operation is subject to the following two conditions:**

1. this device may not cause interference
2. this device must accept any interference, including interference that may cause undesired operation of the device.

## IC SAR Warning:

English This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

**Important:** The operating temperature of the EUT can't exceed 85 °C and shouldn't be lower than -40 °C. Hereby, Arduino S.r.l. declares that this product is in compliance with essential requirements and other relevant provisions of Directive 2014/53/EU. This product is allowed to be used in all EU member states.

## Company Information

Company name	Arduino SRL
Company Address	Via Andrea Appiani, 25 – 20900 MONZA Italy)

## Reference Documentation


Ref	Link
Arduino IDE (Desktop)	<a href="https://www.arduino.cc/en/Main/Software">https://www.arduino.cc/en/Main/Software</a>
Arduino IDE (Cloud)	<a href="https://create.arduino.cc/editor">https://create.arduino.cc/editor</a>
Cloud IDE Getting Started	<a href="https://docs.arduino.cc/cloud/web-editor/tutorials/getting-started/getting-started-web-editor">https://docs.arduino.cc/cloud/web-editor/tutorials/getting-started/getting-started-web-editor</a>
Project Hub	<a href="https://create.arduino.cc/projecthub?by=part&amp;part_id=11332&amp;sort=trending">https://create.arduino.cc/projecthub?by=part&amp;part_id=11332&amp;sort=trending</a>
Library Reference	<a href="https://github.com/arduino-libraries/">https://github.com/arduino-libraries/</a>
Online Store	<a href="https://store.arduino.cc/">https://store.arduino.cc/</a>

## Change Log

Date	Revision	Changes
08/06/2023	1	First Release

Arduino® UNO R4 WiFi Modified: 26/06/2023

## Documents / Resources

	<p><b><a href="#">ARDUINO ABX00087 UNO R4 WiFi</a></b> [pdf] User Guide  ABX00087 UNO R4 WiFi, ABX00087, UNO R4 WiFi, R4 WiFi, WiFi</p>
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## References

- [Arduino Cloud](#)
- [Arduino Project Hub](#)
- [Getting started with the Web Editor | Arduino Documentation](#)
- [Arduino Libraries · GitHub](#)
- [Arduino Official Store | Boards Shields Kits Accessories](#)
- [Software | Arduino](#)