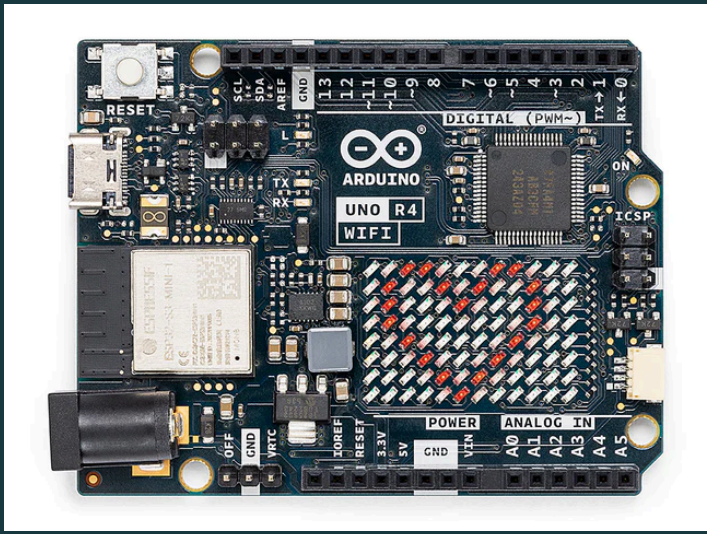
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INDUSTRIAL PRODUCT DATASHEET

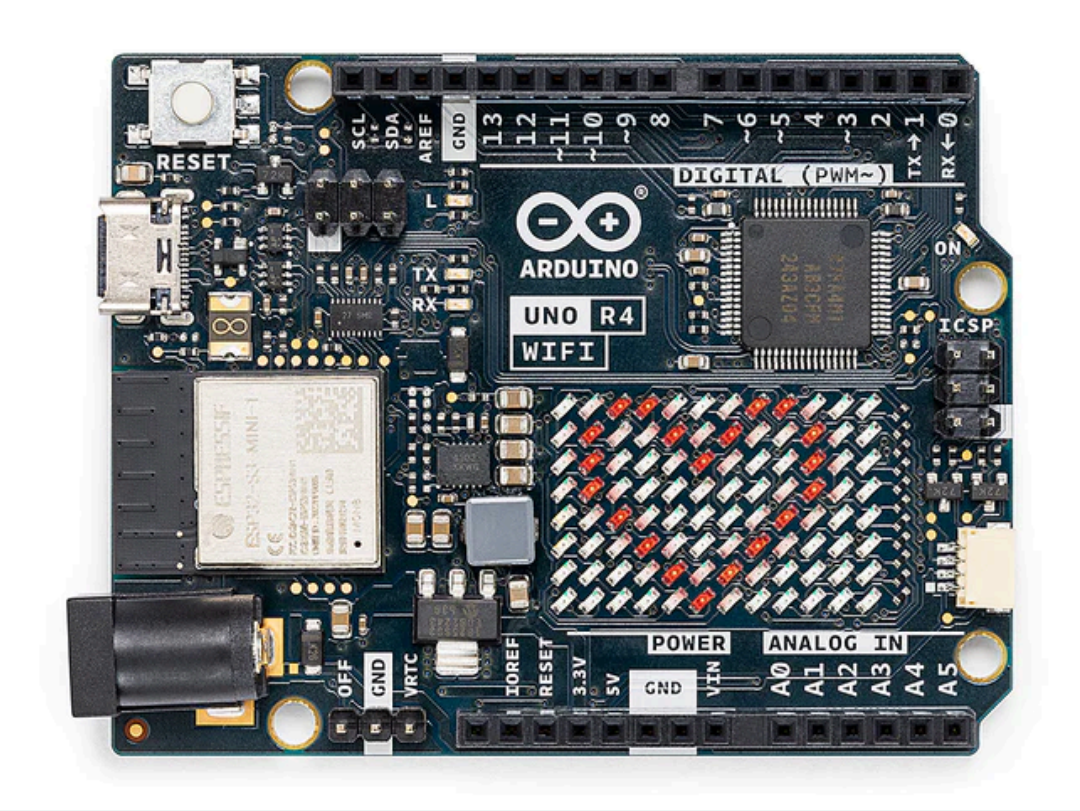
Arduino UNO Rev4 WiFi, 32-bit, Renesas RA4M1 - Arm Cortex -M4, ESP32-S3 Wi-Fi® module, Bluetooth, 12x8 LED Matrix, Qwiic Connector, VRTC

The Arduino UNO R4 WiFi has been merged with RA4M1 and ESP32-S3 microprocessors and offers expanded memory, faster clock speed, and new onboard peripherals for increased capabilities.

SKU	UPDATED	PRICE
102991796	2026-11-11 08:59:20	$27.50(Excl. VAT)



Overview



The Arduino UNO R4 WiFi has been merged with RA4M1 and ESP32-S3 microprocessors and offers expanded memory, faster clock speed, and new onboard peripherals for increased capabilities. It also supports Wi-Fi and Bluetooth wireless connectivity, Qwiic ecosystem, HID support, and runtime error diagnostics, making it an ideal choice for makers of all levels.

Key Features

01 **High-performance microcontroller with wireless capacity**

Merged with RA4M1 and ESP32-S3 microprocessors and supports Wi-Fi and Bluetooth wireless connectivity

02 **Wider input voltage range**

Supports an input voltage range of 6-24 V, enabling seamless integration and simplifying projects by utilizing a single power source.

03 **Dual-chip memory and clock speed**

Provide a main core of processing capabilities with 48 MHz clock speed and ESP32-S3 for up to 240 MHz, and offer 256 KB of Flash memory by the main core where 512 KB of SRAM for ESP32-S3

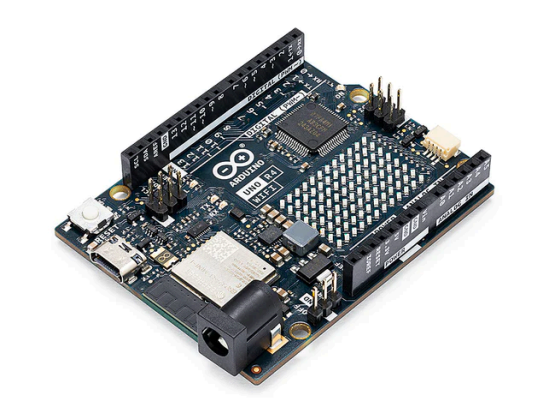
04 **On-board peripherals**

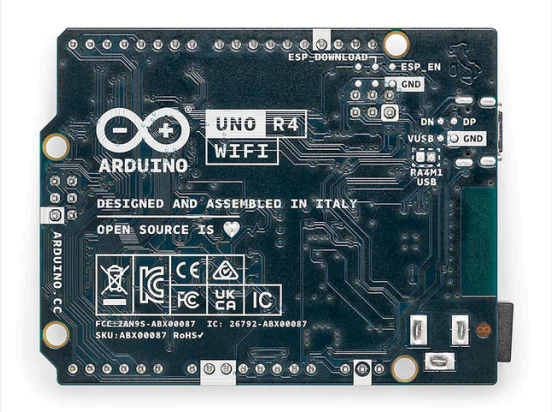
Features a 12x8 LED matrix, Qwiic connector, and additional pins, support for battery-powered RTC, providing expanded capabilities and design flexibility

05 **HID support**

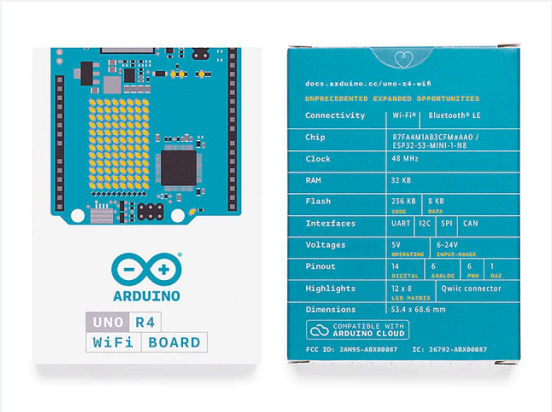
With built-in HID support, the UNO Rev4 WiFi can simulate a mouse or keyboard when connected to a computer via USB, making it easy to send keystrokes and mouse movements

Product Gallery

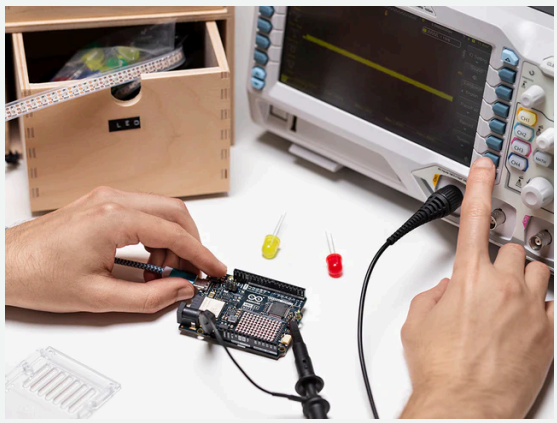


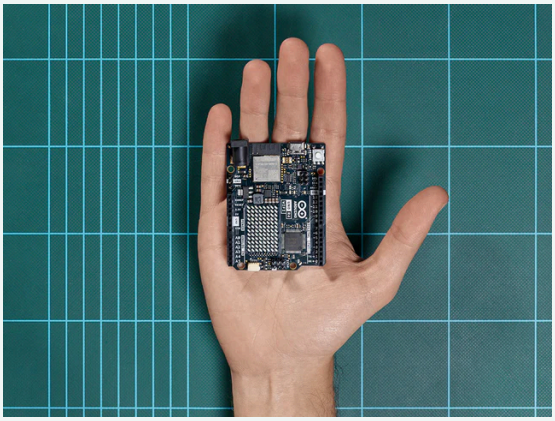












Applications

- **Weather Monitoring**
- **Fitness Trackers**
- **Smart Agriculture**
- **Wearable Health Devices**
- **Automation Control Systems**

Resource Links

- https://www.seeedstudio.com/Arduino-Uno-Rev4-WiFi-p-5717.html
- Arduino UNO Rev4 WiFi datasheet
- Arduino UNO Rev4 WiFi schematic

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