

Item no.: 366942

Arduino® UNO R4 WiFi

from 26,85 EUR

shipping weight: 0.20 kg Manufacturer: Arduino

Product Description

Let's explore what the UNO R4 WiFi has to offer:

Let's explore what the UNO R4 WiFi has to offer:

Hardware compatibility with UNO form factor: The UNO R4 WiFi maintains the same form factor, pinout, and 5 V operating voltage as its predecessor, the UNO R3, ensuring a seamless transition for existing shields and projects. Expanded memory and faster clock: The UNO R4 WiFi boasts increased memory and a faster clock speed, enabling more precise calculations and effortless handling of complex projects. Extra on-board peripherals: The UNO R4 WiFi introduces a range of on-board peripherals, including a 12-bit DAC, CAN BUS, and OP AMP, providing expanded capabilities and design flexibility. Extended 24 V tolerance: The UNO R4 WiFi supports a wider input voltage range, allowing seamless integration with motors, LED strips, and other actuators using a single power source. HID support: With built-in HID support, the UNO R4 WiFi can simulate a mouse or keyboard when connected to a computer via USB, making it easy to send keystrokes and mouse movements. Wi-Fi@ and Bluetooth®: The UNO R4 WiFi inotsts an ESP32-S3 module, enabling makers to add wireless connectivity to their projects. Combined with the Arduino IoT Cloud, makers can monitor and control their projects remotely. Qwiic connector: The UNO R4 WiFi features a Qwiic I2C connector, allowing easy connection to nodes from the extensive Qwiic ecosystem. Adapter cables also enable compatibility with sensors and actuators based on other connectors. Support for battery-powered RTC: The UNO R4 WiFi includes additional pins, including an "OFF" pin to turn off the board and a "VRTC" pin to WiFi includes additional pins, including an "OFF" pin to turn off the board and a "VRTC" pin to VINO R4 WiFi includes and error-catching mechanism that detects runtime crashes and provides detailed explanations and hints about the code line causing the crash. With all these features packed into the well-known UNO form factor, now is the perfect time to upgrade your project or embark on your maker journey. The UNO R4 WiFi offers unparallele

Board

Name:Arduino® UNO R4 WiFi:SKU ABX00087

Microcontroller Renesas: RA4M1 (Arm® Cortex®-M4)USB: USB-C®, Programming PortPins: Digital I/O Pins 14Pins: Analog input pins 6DAC: 1PWM pins: 6

Communication

UART: Yes, 1xI2C: Yes, 1xSPI: Yes, 1xCAN:Yes 1 CAN Bus

Circuit operating voltage: 5 V (ESP32-S3 is 3.3 V)Input voltage (VIN): 6-24 VDC Current per I/O Pin: 8 mA

Clock speed

Main core: 48 MHzESP32-S3: up to 240 MHz

Memory

RA4M1: 256 kB Flash, 32 kB RAMESP32-S3: 384 kB ROM, 512 kB SRAM

Dimensions

Width 68.85 mmLength 53.34 mm

Specifications

Scan this QR code to view the product

All details, up-to-date prices and availability

