Item no.: 353131
ABX00032 - Nano 33 IoT with headers

from **26,08 EUR**

Item no.: 353131
shipping weight: 0.10 kg
Manufacturer: Arduino

📄 Product Description

Arduino Nano 33 IoT with headers

Arduino Nano 33 IoT allows you to build your next smart project. Ever wanted an automated house? Or a smart garden? Well, now it's easy with the Arduino IoT Cloud compatible boards. It means: you can connect devices, visualize data, control and share your projects from anywhere in the world. Whether you're a beginner or a pro, Arduino has a wide range of plans to make sure you get the features you need.

The Arduino Nano 33 IoT is the easiest and cheapest point of entry to enhance existing devices (and creating new ones) to be part of the IoT and designing pico-network applications. Whether you are looking at building a 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 Nano 33 IoT is your one-stop-solution for many of the basic IoT application scenarios.

The board's main processor is a low power Arm® Cortex®-M0 32-bit SAMD21. The WiFi and Bluetooth® connectivity is performed with a module from u-blox, the NINA-W10, a low power chipset operating in the 2.4 GHz range. On top of those, secure communication is ensured through the Microchip® ECC608 crypto chip. Besides that, you can find a 6 axis IMU, what makes this board perfect for simple vibration alarm systems, pedometers, relative positioning of robots, etc.

- Microcontroller: SAMD21 Cortex®-M0+ 32bit low power ARM MCU
- Radio module: u-blox NINA-W102
- Secure element: ATECC608A
- Operating voltage: 3.3 V
- Input voltage (limit): 21 V
- DC current per I/O pin: 7 mA
- Clock speed: 48 MHz
- CPU Flash memory: 256 KB
- SRAM: 32 KB (nRF52840)
- EEPROM: None
- Digital input/output pins: 14
- PWM pins: 11 (2, 3, 5, 6, 9, 10, 11, 12, 16/A2, 17/A3, 19/A5)
- UART: 1
- SPI: 1
- I2C: 1
- Analog input pins: 8 (ADC 12 bit 200 ksamples)
- Analog output pins: 1 (DAC 10 bit)
- External interrupts: All digital pins (all analog pins can also be used as interrupt pins, but will have duplicated interrupt numbers)
- LED built-in: 13
- USB: Native in the SAMD21 processor
- IMU: LSM6DS3
- Length: 45 mm
- Width: 18 mm
- Weight: 5 g (with headers)

📄 Specifications