

Arduino Nano Connector Carrier - Product Details Page

Product Name: Arduino Nano Connector Carrier

Short description

Expand the power of your Nano projects with easy cable connectivity. The Arduino Nano Connector Carrier brings plug-and-play simplicity to the Nano family, making it faster than ever to prototype with Qwiic, Grove, and Modulino modules, and to unlock new potential with onboard microSD storage.

Overview

Designed to maximize the versatility of the [Arduino Nano boards](#), the Nano Connector Carrier lets you go from idea to prototype in record time. Whether you're building with MicroPython, experimenting with Matter, or developing edge AI applications, this carrier offers an intuitive platform to connect sensors, actuators, and expansion modules. Thanks to its **plug-and-play Qwiic and Grove connectors**, plus an onboard **microSD card slot** for data logging and real-time storage, the Nano Connector Carrier simplifies complex builds. From functional prototypes to industrial automation, it's the perfect companion for makers, educators, and professionals looking to maximize the use of their Nano boards.

Key benefits

- **Rapid, intuitive prototyping**
Build proofs of concept and functional prototypes in minutes with plug-and-play support for Qwiic, Grove, and Modulino modules.
- **MicroPython and Matter ready**
Pair with [Nano RP2040 Connect](#), [Nano ESP32](#), or [Nano Matter](#) to explore MicroPython libraries and Matter-compatible IoT projects.
- **Onboard microSD card slot**
Unlock edge AI, data logging, and real-time storage capabilities with a convenient microSD interface.
- **Compact, versatile design**
Double-row Nano headers and multiple Grove ports (I2C, UART/GPIO, Analog/GPIO) provide maximum flexibility without taking up space.
- **Seamless integration across use cases**
Perfect for everything from predictive maintenance in industrial settings to smart home automation, educational projects, and hobby builds.

Application examples to explore

- **Industrial automation POCs**
Prototype compact data loggers or predictive maintenance systems by combining the carrier with Nano boards and Modulino sensors, for proof-of-concept critical equipment monitoring.
- **Smart home prototypes**
Design smart devices that monitor and adjust temperature, humidity, or occupancy – and integrate them with Matter ecosystems like Amazon Alexa or Google Home.
- **Controller projects**
Prototype versatile interfaces like RC, MIDI, RF, Bluetooth® Low Energy, HID, or DMX controllers with responsive sensor and actuator setups.

- **Educational platforms**

Use the carrier to introduce students to MicroPython and cross-disciplinary innovation, from energy management systems to interactive art installations.

Compatible Nano boards

The Arduino Nano Connector Carrier is compatible with a wide range of 3.3 V and 5 V Nano boards. Check out the table below to make sure all the features you need are supported!

	Nano	Nano Every	Nano ESP32	Nano 33 IoT	Nano 33 BLE Sense Rev2	Nano RP2040 Connect	Nano Matter
Micro	ATmega328	SAMD21 Arm Cortex u-blox NINA-W102	ESP32-S3	SAMD21 Arm Cortex u-blox NINA-W102	nRF5284 u-Blox NINA-B306	Raspberry Pi RP2040 u-blox NINA-W102	MGM240S Arm Silicon Lab Cortex-M33
USB connector	Mini-B USB	Micro USB	USB-C	Micro USB	Micro USB	Micro USB	USB-C
I/O voltage	5 V	5 V	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V
Input range	7-12V	6-21 V	6-21 V	6-21 V	6-21 V	6-21 V	6-21 V
SRAM	2 kB	6 kB	512 kB	256 kB	256 kB	264 kB	256 kB
Flash	31 kB	48 kB	16 MB	1 MB	1 MB	16 MB	16 MB
Wi-Fi	✗	✗	☑	☑	✗	☑	✗
Bluetooth LE	✗	✗	☑	☑	☑	☑	☑
Digital Inputs	2	22	22	22	14	22	14
Analog Inputs	8	8	8	8	8	8	8
MicroPython	✗	✗	☑	✗	☑	☑	✗
OTA	✗	✗	☑	☑	✗	☑	☑