

Arduino Nesso N1 Product Details Page

SKU: TPX00227

Short description

Compact, connected, and ready for the real world: the Arduino Nesso N1 is a powerful ESP32-C6 IoT development kit with a rich set of wireless and IR features – perfect for smart home, industrial, and educational applications.

Overview

Build the future of connected devices – faster and smarter – with the Arduino Nesso N1. Powered by the ESP32-C6 and developed with M5Stack, this ready-to-go device merges robust performance with the flexibility of Arduino's open ecosystem. It supports Wi-Fi® 6, Bluetooth® 5.0, Thread, and LoRa® for multi-protocol communication across home, industrial, and remote environments. A 1.14" touch display, programmable buttons, built-in IMU, IR transmitter, RB LED, buzzer, and rechargeable battery make it an intuitive, interactive tool for IoT development. You can easily expand its capabilities through Grove and Qwiic connectors – compatible with Arduino Modulino nodes and third-party modules – as well as the whole [M5Stack sensor-hat ecosystem](#), and seamlessly integrate it with Arduino Cloud for remote monitoring and data visualization. With pre-assembled hardware, a sturdy enclosure, and support for Arduino IDE, MicroPython, and UIFlow, Nesso N1 removes setup friction so you can focus on bringing your ideas to life.

Key benefits

- **Powerful connectivity in one device:** Supports Wi-Fi® 6, Bluetooth® 5.0, Thread, and LoRa®.
- **Ready to use, right out of the box:** Comes pre-assembled in a robust enclosure with a rechargeable battery and display for immediate prototyping.
- **Intuitive interaction:** Touchscreen, programmable buttons, and onboard sensors simplify control and feedback.
- **Plug-and-play expandability:** Easily connect to Arduino Modulino nodes, M5Stack sensor-hat, Grove, and Qwiic modules for rapid project growth.
- **Seamless software flexibility:** Code using Arduino IDE, MicroPython, or UIFlow, and visualize data through Arduino Cloud dashboards.
- **Built for speed and creativity:** Skip mechanical design and setup time to focus on building smarter solutions faster.

Application examples to explore

- **Smart homes and hubs:** Create connected home control centers, transform IR-controlled devices into IoT-enabled appliances, or develop custom automation projects.
- **Industrial automation:** Use Nesso N1 as an edge node to monitor equipment, collect sensor data, or enable predictive maintenance across factory systems.
- **Agriculture and environmental monitoring:** Connect soil, weather, or irrigation sensors via Thread to support sustainable and data-driven farming.
- **Education and research:** Prototype multi-protocol IoT systems, collect and visualize real-time data, or use it as a flexible learning platform in STEM projects.