



Arduino Nano Matter Sales Brief

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Product Overview

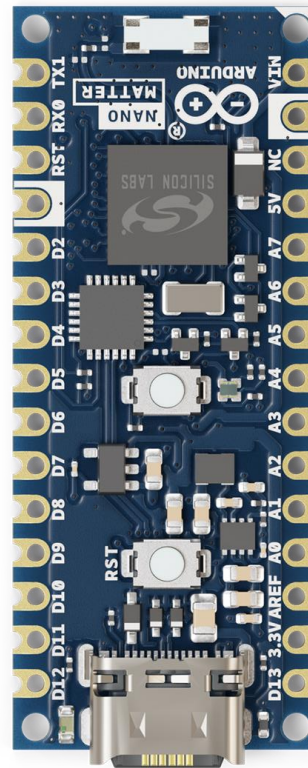
Enjoy your new automated home

Develop multiple **home** and **building automation** applications with the Nano Matter.

The Nano Matter merges the well-known Arduino way of making complex technology more accessible with the powerful **MGM240S from Silicon Labs**, to bring **Matter**, one of the most popular IoT connectivity standards, closer to the maker and professional world.

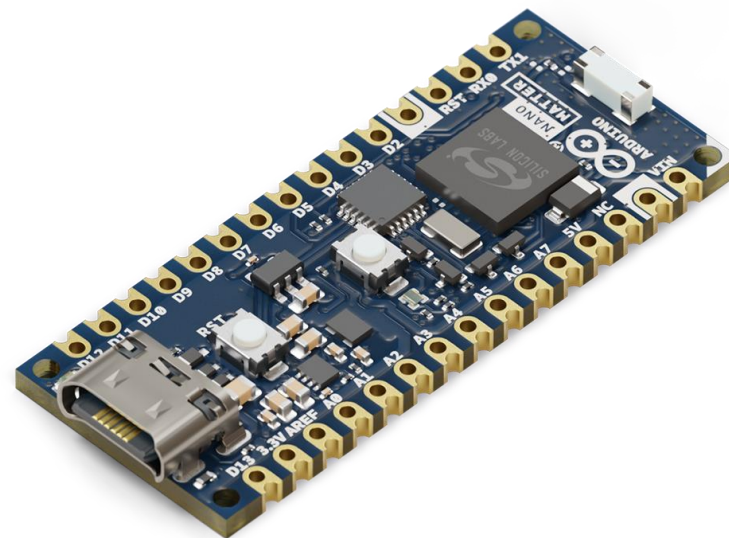
Thanks to its tiny size (18 x 45 mm) and robust design, the board is ideal for projects that need to combine **low-power capabilities** and **multiple connectivity** options, including **BLE®** and **OpenThread®**.

Start interacting with any Matter-compatible device without effort and take advantage of a **wide range of peripherals and I/Os** to connect any external equipment.



Benefits

- Quickly interact with Matter compatible devices with a user-friendly coding experience
- Take advantage of multiple connectivity options in a compact form factor, i.e. 802.15.4 Thread® and Bluetooth® Low Energy
- Great prototyping tool for scalable professional applications
- Protect your projects from threats with the embedded Secure Vault® technology, a collection of industry-leading security features
- Enable always-on data processing thanks to its low power capabilities
- Start debugging in no time leveraging the debugging over USB feature



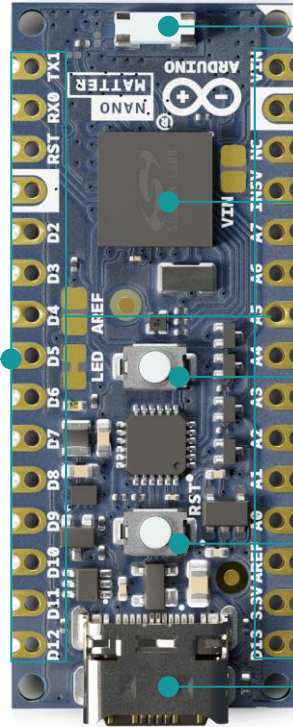
Tech specs

Microcontroller	● MGM240SD22VNA: ○ 32-bit ARM Cortex®-M33 with DSP instruction and FPU	Interfaces	I2C SPI UART PWM Digital I/Os ADC (up to 16 bit) DAC
Memory	● 1536 kB Flash ● 256 kB RAM	Security	● Secure Vault® High
USB	● 1x USB-C connector	Extra	● RGB LED ● User push-buttons
Connectivity	● 802.15.4 Thread® ● Bluetooth® Low Energy 5.3 and Bluetooth® Mesh ● Matter-ready Smart Home Connectivity	I/O Voltage	● 3.3V
Antenna	● On-board 2.4GHz	Input Voltage (nominal)	● 5V
Clock Speed	● 78 MHz	Dimensions	● 18 mm x 45 mm



Tech specs

Castellated and Headers pins for (I2C, SPI, UART,PWM, Digital I/Os



Antenna

Silicon Labs
MGM240S

User Push-
Buttons

USB-C
Connector





That's a wrap
Thank you!