

NETARDUINO

What is Netduino?

Netduino is an open-source hardware platform that runs applications built using the .NET MicroFramework. It allows developers to write programs in C#, making it more powerful and flexible compared to traditional microcontrollers like Arduino, which use C/C++.

Key Features

- **.NET MicroFramework Support** – Enables programming in C# with features like threading, event handling, and garbage collection.
- **Compatible with Arduino Shields** – Allows easy hardware expansion.
- **Ideal for IoT & Embedded Systems** – Can be used for home automation, industrial machinery, and more.
- **Supports Windows & Mac Development** – Works with Visual Studio and Xamarin Studio.

Netduino Models & Specifications

Model	MCU	Flash Storage	RAM	Network Connectivity
Netduino 3	Cortex-M4 @ 168MHz	384KB	164+ KB	No Network
Netduino 3 Ethernet	Cortex-M4 @ 168MHz	1408KB	164+ KB	10/100 Mbps Ethernet
Netduino 3 WiFi	Cortex-M4 @ 168MHz	1408KB	164+ KB	WiFi (802.11 b/g/n) + SSL/TLS 1.2
Netduino 2	Cortex-M3 @ 120MHz	192KB	60 KB	No Network
Netduino 2+	Cortex-M4 @ 168MHz	384KB	100+ KB	10 Mbps Ethernet

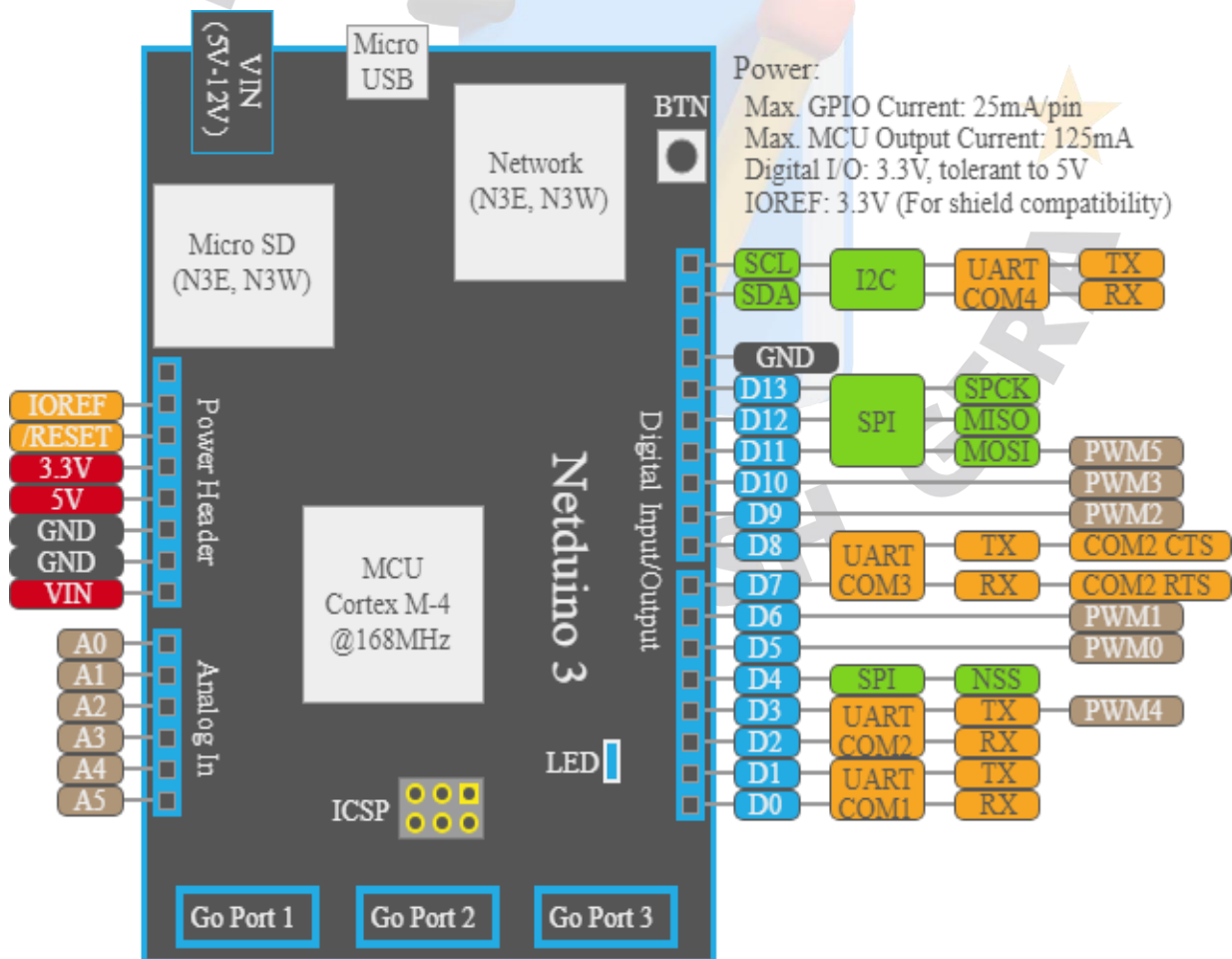
Additional Features

- **MicroSD Support** – Supports storage up to 2GB.
- **Arduino-Compatible Pin Layout** – Makes it easy to use with existing Arduino shields.

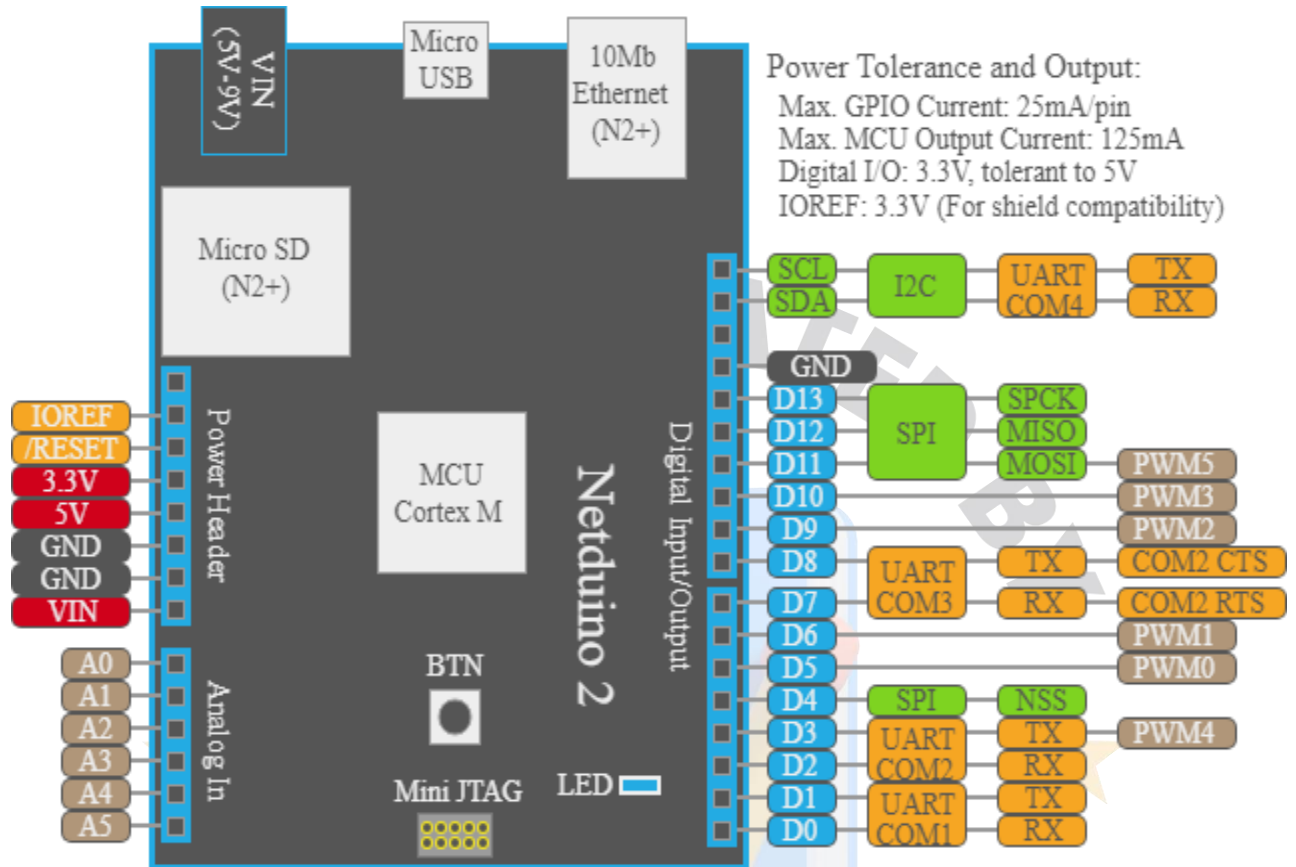
- **Power Options** – Can be powered via USB or VIN barrel jack (5V–12V for N3, 5V–9V for N2).
- **Netduino.Foundation** – A framework with built-in support for sensors, LCDs, motor controllers, and more.

Netduino is a powerful alternative to Arduino, offering C# programming, higher performance, and better networking capabilities—perfect for IoT and embedded projects!

Netduino 3



Netduino 2



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