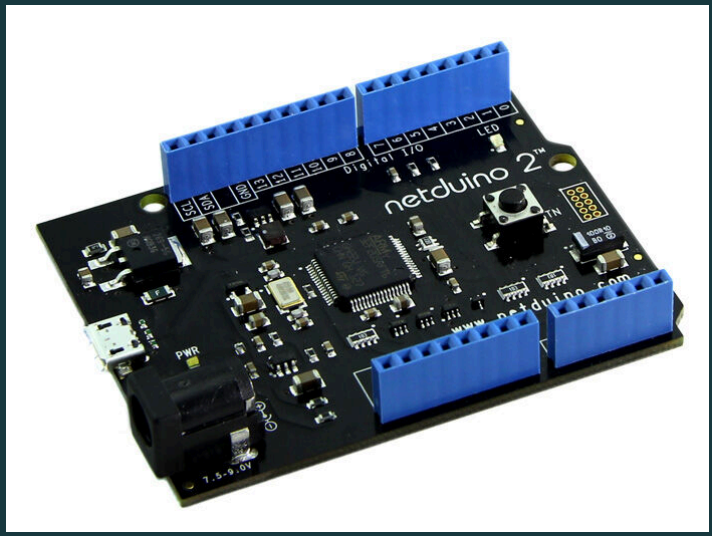
seeed studio

INDUSTRIAL PRODUCT DATASHEET

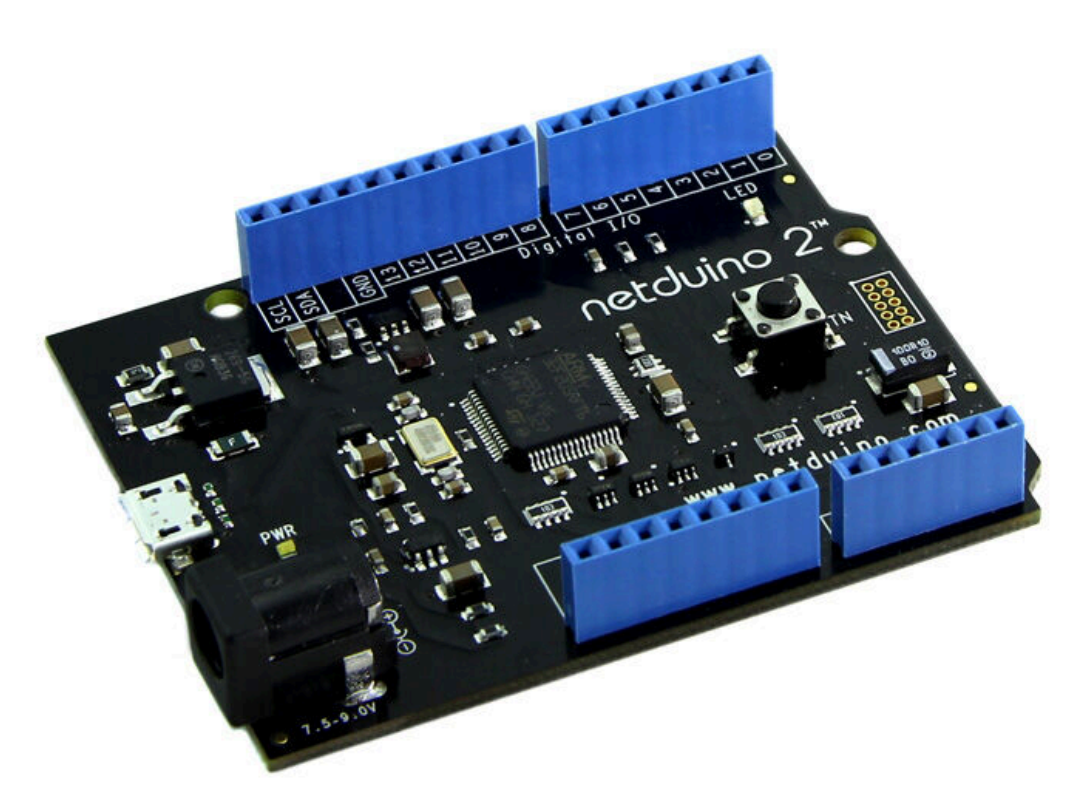
Netduino 2

Retired open source .NET Micro Framework platform with 32-bit microcontroller, 22 GPIOs, SPI, I2C, 4 UARTs, 6 PWM, 6 ADC, and Arduino shield compatibility.

SKU	UPDATED	PRICE
102990026	2024-08-09 02:12:44	$32.95(Excl. VAT)



Overview



The retired Netduino 2 is an open source electronics platform using the .NET Micro Framework, featuring a 32-bit STMicro STM32F2 microcontroller and Arduino shield compatibility. It provides 22 GPIOs with SPI, I2C, 4 UARTs, 6 PWM and 6 ADC channels for interfacing with switches, sensors, LEDs, and serial devices.

Key Features

This product is retired, please consider our **Netduino Plus 2** as your alternative choice.

Netduino 2 is an open source electronics platform using the .NET Micro Framework. Featuring a 32-bit microcontroller and a rich development environment. Suitable for engineers and hobbyists alike.

Features

- Input. Output
  - Interface with switches, sensors, LEDs, serial devices, and more.
  - Netduino 2 combines 22 GPIOs with SPI, I2C, 4 UARTs (1 RTS/CTS), 6 PWM and 6 ADC channels.
- Code. Debug. Repeat
  - .NET Micro Framework combines the ease of high-level coding and the f eatures of microcontrollers.
- Very expandable
  - 3rd-party accessories offer pre-built functionality like GPS location, servo control and battery power.
  - Netduino 2 is also pin compatible with Arduino shields.
  - Drivers are required for some Arduino shields
- Design files includes
  - Netduino 2 is an open source electronics platform.
  - Design files and source code are included.

Specifications

- Microcontroller : STMicro STM32F2
- Speed : 120 MHz (Cortex-M3)
- Code Storage : 192 KB
- RAM : 60 KB
- All 22 Digital And Analog Pins: GPIO
- Digital Pins 0-1: UART 1 RX, TX
- Digital Pins 2-3: UART 2 RX, TX/PWM
- Digital Pins 5-6: PWM, PWM
- Digital Pins 7-8: UART 3 RX, TX(also works as UART 2 RTS, CTS)
- Digital Pins 9-10: PWM, PWM
- Digital Pins 11-13: PWM/MOSI, MISO, SPCK
- Digital Pin SD/SC: SDA/SCL(also works as UART 4 RX, TX)
- Input: 7.5 - 9.0 VDC or micro USB powered
- Output: 5 VDC and 3.3 VDC regulated
- Max Current: 25 mA per pin
- Digital i/o are 3.3 V--but 5 V tolerant
- Storage : add-on: sd shields (up to 2 gb)
- Gobus Ports : none
- Operating Temperature : 0 - 70 °C (32 - 158 °F)
- Rohs : rohs compliant

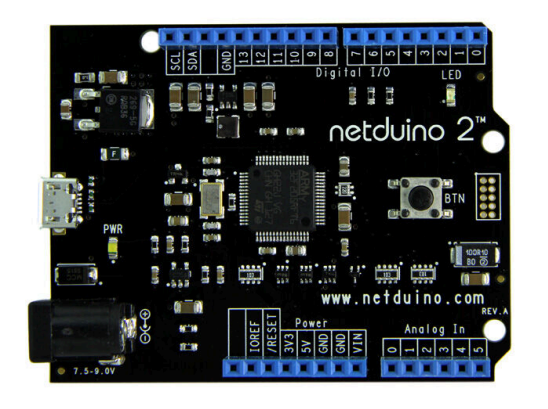
Parts list

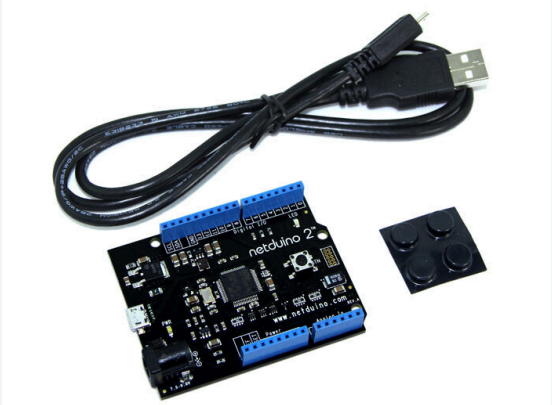
- Netduino 2
- Four sticky feet

Document

- STM32F205RF (datasheet)
- STM32F205RF (reference manual)
- netduino 2 schematics
- netduino 2 board layout
- .NET Micro Framework v4.2 source
- netduino 2 firmware v4.2.2 source

Product Gallery





Compliance & Logistics

HSCODE	9032900090
ROHS	1

Resource Links

- https://www.seeedstudio.com/Netduino-2-p-901.html

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com