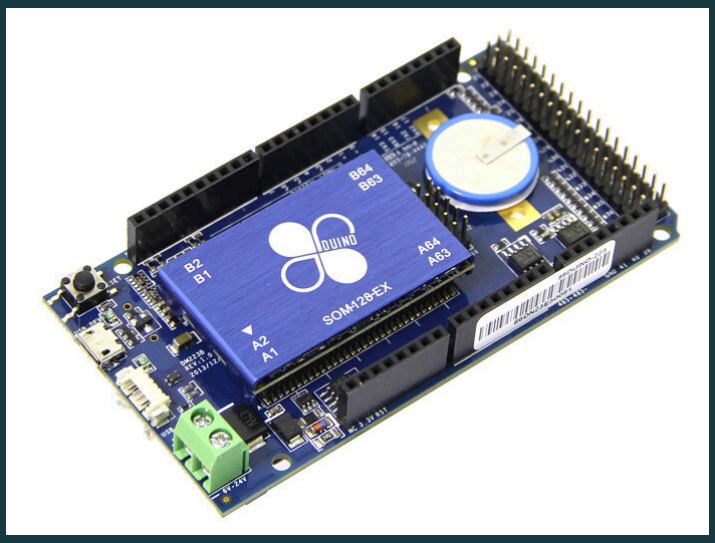
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INDUSTRIAL PRODUCT DATASHEET

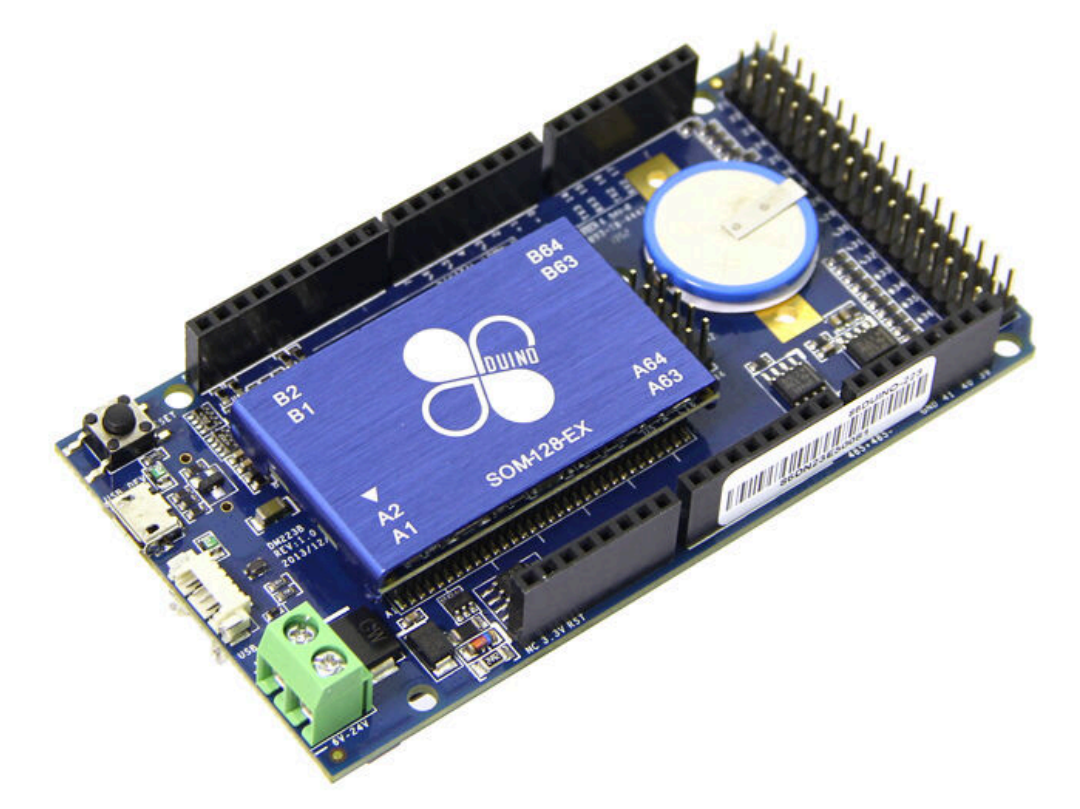
86Duino One - an embedded platform based on Vortex86EX SoC

86Duino One: an Arduino-compatible, high-performance 32-bit x86 embedded platform with integrated Vortex86EX SoC and multi-OS support.

SKU	UPDATED	PRICE
102990064	2024-08-09 02:07:27	$79.00(Excl. VAT)



Overview



The 86Duino One is an open-source embedded platform based on the Vortex86EX SoC, featuring a 300 MHz 32-bit x86 processor and Arduino-compatible hardware. It supports multiple operating systems including DOS, Windows, and Linux, and integrates DDR3 memory, Fast Ethernet, USB 2.0, and Micro-SD for high-performance embedded applications.

Key Features

86Duino is an open-source embedded platform based on Vortex86EX SoC, easy-to-use hardware and software integrated. This Arduino-compatible board can support many x86 O/S as well as those running on the original Arduino base system.

The 86Duino is a high performance and fully static 32-bit x86 processor board compatible with Windows OS, Linux and most popular 32-bit RTOS. It integrates PCIE bus, DDR3, ROM controller, xISA, I2C, SPI, IPC (Internal Peripheral Controllers with DMA and interrupt timer/counter included), Fast Ethernet, FIFO UART, USB2.0 and SD/SATA controller within a single package to form a system-on-a-chip (SOC).

86Duino provides an ideal solution for the Arduino and embedded system with desired performance.

Features

-
- Vortex86EX Processor

- 300MHz 32-bit x86

- 128MB DDR3

- LAN

- USB 2.0

- Micro-SD

-
- Open-Source Hardware
-
- Support DOS, Windows, Linux
-
- Arduino-Compatible IDE

Specifications

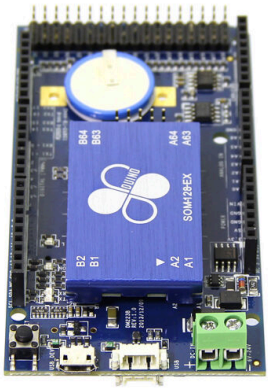
-
- Processor: Vortex86EX
-
- Clock Speed: 300 MHz
-
- Memory: 128MB DDR3
-
- Flash Memory: 8MB
-

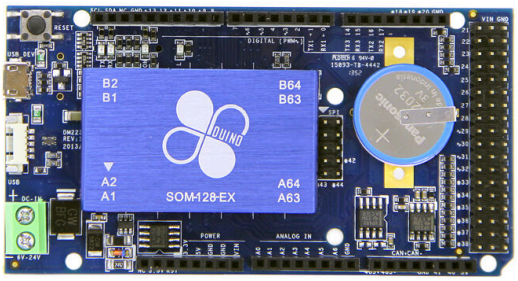
- Digital I/O Pins: 45 (of which 11 provide 32bit PWM output)
-
- Analog Input Pins: 7 (11bit)
-
- Operating Voltage: 5V
-
- Input Voltage (recommended): 6-24V
-
- DC Current per I/O Pin: 16 mA
-
- DC Current for 3.3V Pin: 400 mA

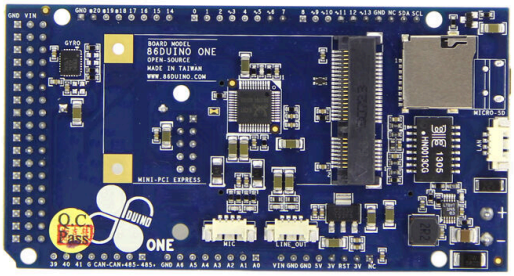
Documentations

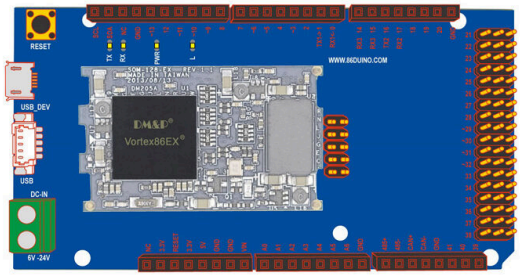
-
- **Vortex86EX Datasheet V1.4**
-
- **Circuits Schematics for DM-205 (Vortex86EX SOM-128-EX)**
-
- **Circuits Schematics for DM-223 (Daughter Board)**
-
- **BOM/Part List for DM-223 (Daughter Board)**
-
- **Gerber file for DM-223 (Daughter Board)**

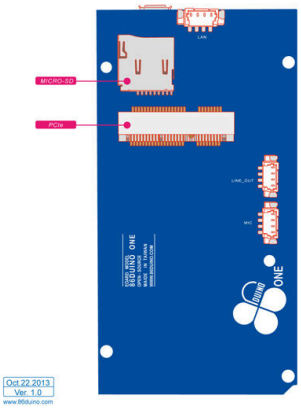
Product Gallery











Resource Links

- https://www.seeedstudio.com/86Duino-One-an-embedded-platform-based-on-Vortex86EX-SoC-p-1846.html

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