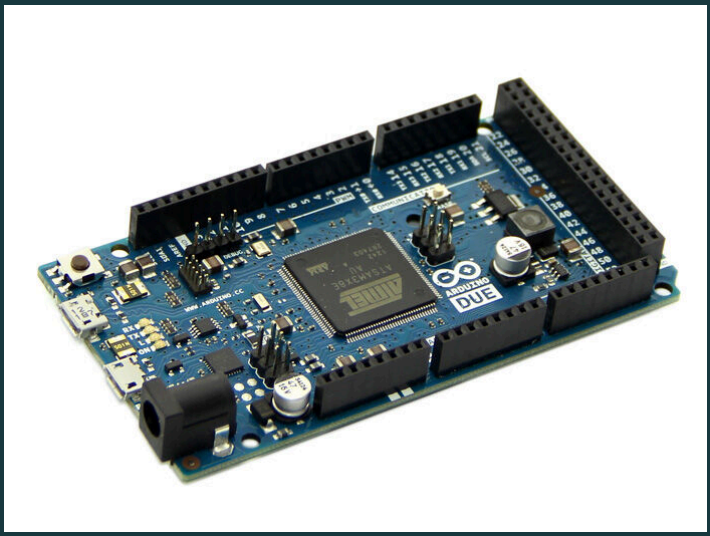
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INDUSTRIAL PRODUCT DATASHEET

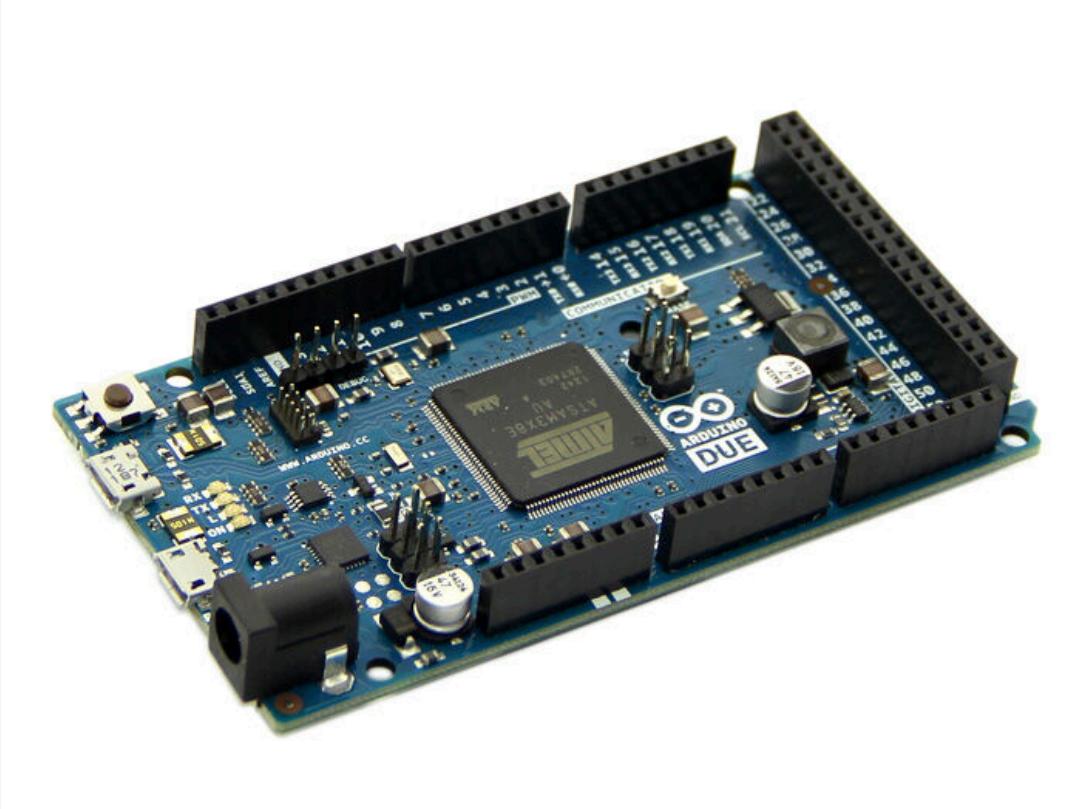
Arduino Due

Arduino Due is a retired 32-bit ARM Cortex-M3 microcontroller board with 54 digital I/O pins, 12 analog inputs, 4 UARTs, two DAC outputs, and an 84 MHz clock; Seeeduino V4.2 is suggested as an alternative.

SKU	UPDATED	PRICE
102990081	2024-08-09 02:11:28	$49.95(Excl. VAT)



Overview



This product is retired, please consider our Seeeduino V4.2 as your alternative choice. The Arduino Due is the first board based on a 32-bit ARM core processor, the Atmel SAM3X8E ARM Cortex-M3 MCU, offering 54 digital I/O pins, 12 analog inputs, 4 UARTs, two DAC outputs, and an 84 MHz clock.

Key Features

This product is retired, please consider our **Seeeduino V4.2** as your alternative choice.

The **Arduino Due** is the newcomer microcontroller board in the Arduino boards family. It's the first board based on a 32 bit ARM core processor, the Atmel **SAM3X8E ARM Cortex-M3** MCU, that improve all the standard Arduino functionalities and add more new features.

It offer 54 digital input/output pins (of which 12 can be used as PWM outputs, with selectable resolution), 12 analog inputs with 12 bit of resolution, 4 UARTs (hardware serial ports), and two DAC outputs (digital to analog converter), 84 MHz crystal oscillator, two USB connections, a power jack, an ICSP header, a JTAG header, and a reset button. The maximum voltage that the I/O pins can provide or tolerate is 3.3V. Providing higher voltages, like 5V to an input pin could damage the board.

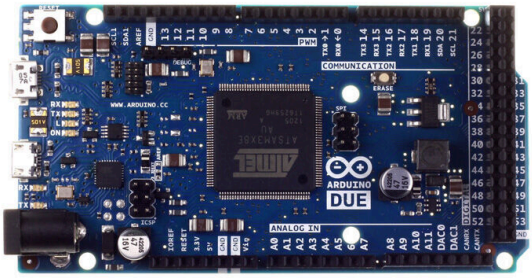
The Due has two usb connectors, the one with the micro-usb AB connector is the native one capable to act as an USB host, that means you can connect compatible external usb peripherals to the board, such as mouse, keyboards, smartphones. While the other USB port with the type B connector is intended for debugging purposes.

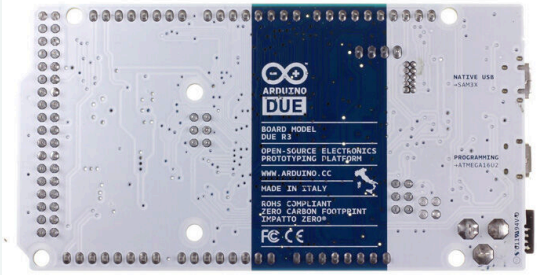
Features

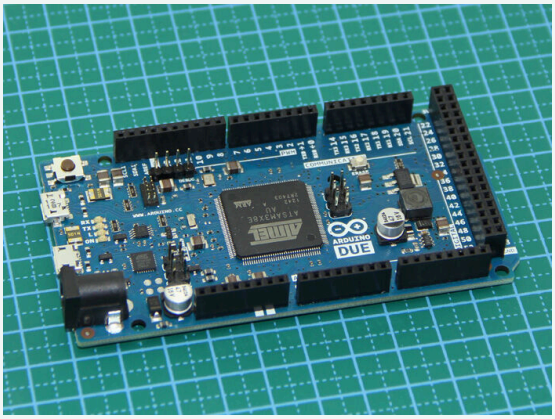
- CPU Clock at 84Mhz.
- 96 KBytes of SRAM.
- 512 KBytes of Flash memory for code.
- a DMA controller, that can relieve the CPU from doing memory intensive tasks.

Specifications

Product Gallery







Specification

Microcontroller	AT91SAM3X8E
Operating Voltage	3.3V
Input Voltage (recommended)	7-12V
Input Voltage (limits)	6-20V
Digital I/O Pins	54 (of which 12 provide PWM output)
Analog Input Pins	12
Analog Outputs Pins	2 (DAC)
Total DC Output Current on all I/O lines	130 mA
DC Current for 3.3V Pin	800 mA
DC Current for 5V Pin	800 mA
SRAM	96 KB (64 + 32 KB)
Clock Speed	84 MHz

Compliance & Logistics

HSCODE	
ROHS	1

Resource Links

- https://www.seeedstudio.com/Arduino-Due-p-1333.html

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