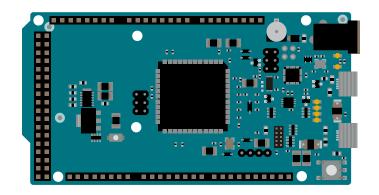
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Arduino Due Overview Essentials Tutorials Get Inspired Resources BUY NOW



Due

The Arduino Due is the first Arduino board based on a 32-bit ARM core microcontroller. With 54 digital input/output pins, 12 analog inputs, 2 DAC and 2 CAN it is the perfect board for powerful larger scale Arduino projects.

SETUP GUIDE

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PINOUT ⊕)

Main Features

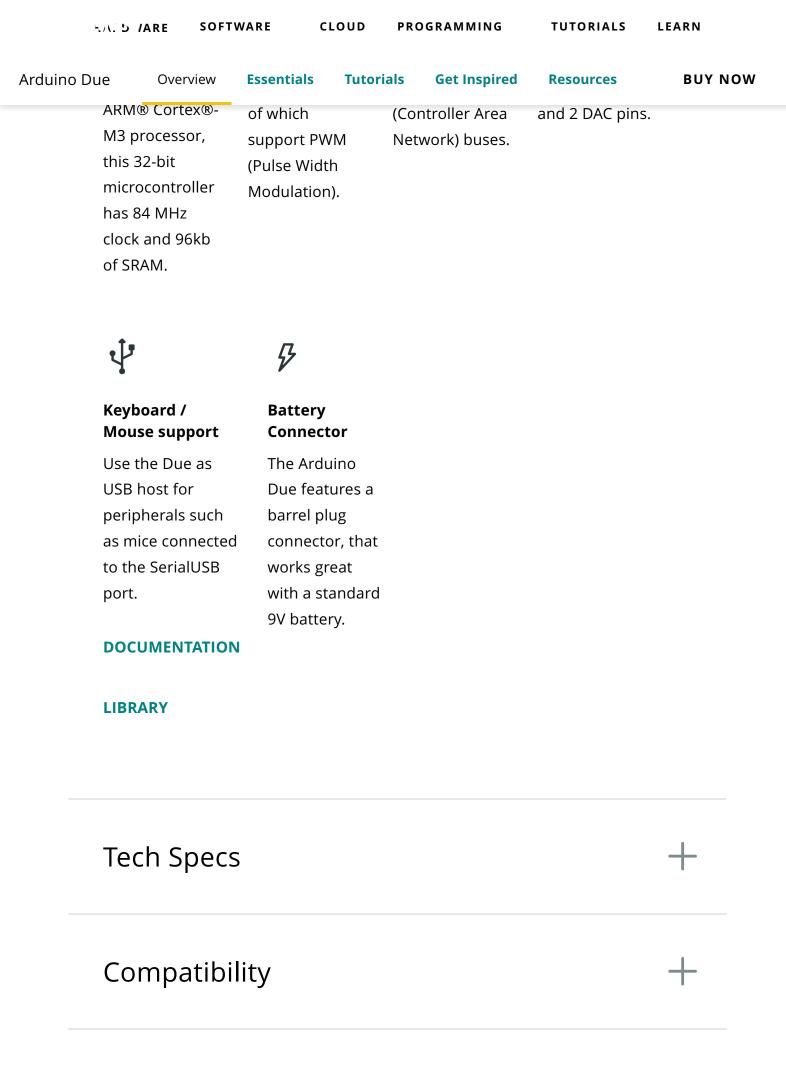
The Arduino Due is a microcontroller board based on the Atmel SAM3X8E ARM Cortex-M3 CPU. It is the first Arduino board based on a 32-bit ARM core microcontroller. It has 54 digital input/output pins (of which 12 can be used as PWM outputs), 12 analog inputs, 4 UARTs (hardware serial ports), a 84 MHz clock, an USB OTG capable connection, 2 DAC (digital to analog), 2 TWI, a power jack, an SPI header, a JTAG header, a reset button and an erase button.











Arduino Due

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First Steps

QuickstartGuide

All you need to know to get started with your new Arduino board.

Suggested Libraries

USBHost

The USBHost library allows an Arduino Due board to appear as a USB host, enabling it to communicate with peripherals like USB mice and keyboards.

M Servo

The Servo library allows an Arduino board to control RC (hobby) servo motors.

M Wire

This library allows you to communicate with I2C / TWI devices.

Arduino Basics

Built-in Examples

Built-in Examples are sketches included in the Arduino IDE and demonstrate all basic Arduino commands.

Learn

Discover interesting articles, principles and techniques related to the Arduino ecosystem.

LanguageReferences

Arduino
programming
language can be
divided in three
main parts:
functions, values
(variables and
constants), and
structure.

Arduino Due

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Extended SPI Library Usage with the Arduino Due

The SAM3X has advanced SPI capabilities. It is possible to use these extended methods, or the AVR-based ones.

SPI

Due Motor Shield Example

This example shows how to drive a DC motor in forward and backward directions, using the Arduino Due and Motor Shield.



Arduino Due Keyboard Controller

This example demonstrates the use of the KeyboardController library.

USB

Mouse Controller

Use the Arduino Due as a USB host for a mouse.



Due Multiple Blinks Example

The Scheduler library allows the Arduino Due to manage multiple tasks at the same time.

Due Scheduler

Simple Waveform Generator with Arduino Due

Generate waveforms by using the Arduino Due and its DAC features

Keyboard Controller

Use the Arduino Due as a USB host for a keyboard.



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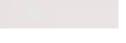
In this tutorial you will update the ATmega16U2 firmware using an Arduino UNO or Mega as an AVR-ISP (in-system programmer).

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Ideas for your next project

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Arduino DUE P

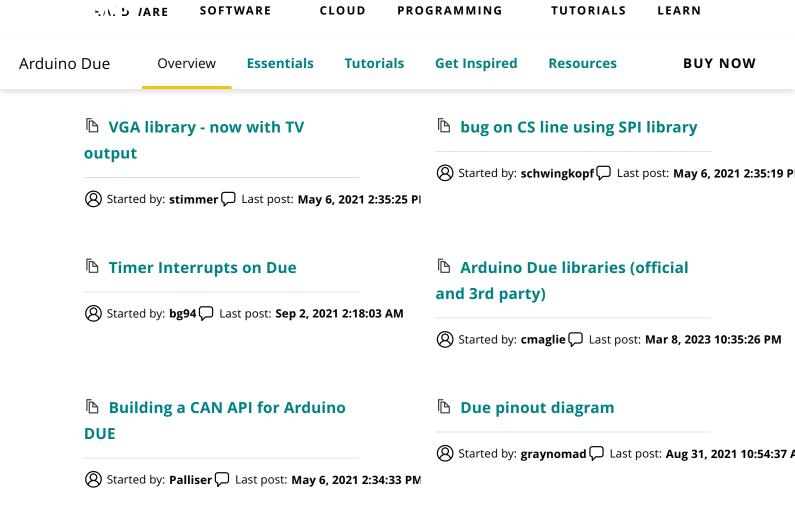
POV Cylinder with Arduino Due © MIT

Project tutorial by Harald Bauer

Project tutorial by

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Resources

Interactive Viewer

Interact with the schematics, the PCB and a 3D model of the product.

Open Viewer

