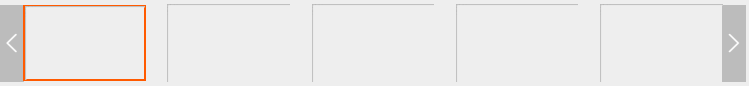
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Arduino DUE - An Arduino Microcontroller Board

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INTRODUCTION

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.

The Arduino Due has 54 digital input/output pins (of which 12 can be used as PWM outputs), 12 analog inputs, 4 UARTs (hardware serial ports), an 84 MHz clock, a 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. There are also some cool features like DACs, Audio, DMA , an experimental multi tasking library and more.

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.

Note

- To compile code for the ARM processor, you'll need the latest version of the Arduino IDE: v1.5.
- Unlike other Arduino boards, the Arduino Due board runs at 3.3V. The maximum voltage that the I/O pins can tolerate is 3.3V. Providing higher voltages, like 5V to an I/O pin could damage the board.

SPECIFICATION

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- 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
- Flash Memory 512 KB all available for the user applications
- SRAM 96 KB (64 + 32 KB)
- Clock Speed 84 MHz

DOCUMENTS

- Arduino Official Board Selection Guide
- Arduino DUE product page
- Download Arduino IDE 1.5.1
- AT91SAM3X8E datasheet
- Arduino DUE Eagle files
- Schematic
- Pin Mapping
- 3.3V Compatible Device List

SHIPPING LIST

- Arduino DUE x1

REVIEW

FAQ

7 Comments DFRobot Disqus' Privacy Policy Login
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n the discussion...

Hel Kumar • a year ago
does it has EEPROM ?
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DFRobot Support Mod ➔ Hel Kumar • a year ago
Hi,
No eeprom,you can add one sd card.
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James Hager • a year ago
ARM processors can also support embedded linux not just arduino. gentoo linux works really well for embedded projects. that would give you the ability to include scripting support to your projects be it a bash script or something more complex like python. or even a full apache lamp server. imagine web login to your robot and queuing timed one time or repeatable commands via crontab using phpmyadmin...its possible with an ARM processor...DFRobot really should hire a linux developer specialized in gentoo or another source based distro or a distro like slackware. they could pre compile embedded linux OS into a binary distro for their ARM boards to be downloaded. wouldnt take but a few days to put a minimalist package together.
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James Hager ➔ James Hager • a year ago
side note, after thinking about it, seeing as both this device and your cell phone are using ARM processors....Android Linux for the ARM platform....just a thought...

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DFRobot Support Mod ➚ James Hager • a year ago

Sounds greet!!!!!

Maybe we will do in the future,

Reply • Share ›

dianne • 3 years ago

Can I connect both an expansion shield and motor shield to this arduino due? If so, how?

Reply • Share ›

DFRobot Support Mod ➚ dianne • 3 years ago

Hi

The IO expansion shield is available since it is shown on the 3.3V compatible Device list, and if you want to find amotor shield, you need to make sure the working voltage is suitable.

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