



ARDUINO DUE R3

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), 16 analog inputs, 3 UARTs (hardware serial ports), a 84 MHz clock, an USB OTG capable connection, 1 DAC (digital to analog), 2 TWI, a power jack, an SPI header, a JTAG header, a reset button and an erase button.

Warning: Unlike most Arduino boards, the Arduino Due board runs at 3.3V. The maximum voltage that the I/O pins can tolerate is 3.3V. Applying voltages higher than 3.3V to any I/O pin could damage the board.

The board contains everything needed to support the microcontroller; simply connect it to a computer with a micro-USB cable or power it with a AC-to-DC adapter or battery to get started. The Due is compatible with all Arduino shields that work at 3.3V and are compliant with the 5-pin Arduino pinout.

The Due follows the 5-pin pinout:

- **TWI:** SDA and SCL pins that are near to the AREF pin.
- **IOREF:** allows an attached shield with the proper configuration to adapt to the voltage provided by the board. This enables shield compatibility with a 3.3V board like the Due and AVR-based boards which operate at 5V.
- An unconnected pin, reserved for future use.

You can find your board warranty information [here](#).

Getting Started

In the [Getting Started section](#), you can find all the information you need to configure your board, use the [Arduino Software \(IDE\)](#), and start to tinker with coding and electronics.

<https://store.arduino.cc/arduino-due>

<https://www.arduino.cc/en/uploads/Main/arduino-Due-schematic.pdf>