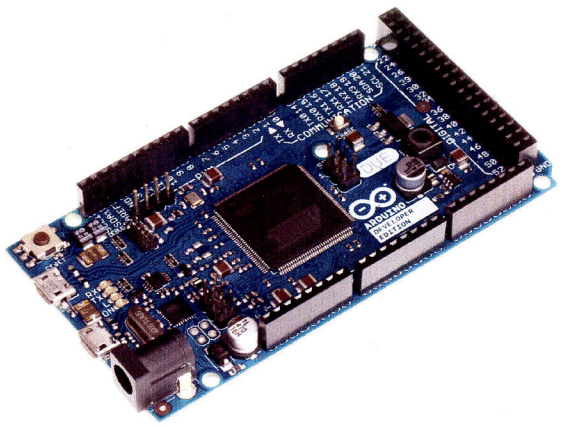
Arduino New Products



Arduino DUE

The Arduino Due is the newcomer microcontroller board in the Arduino boards family. It's the first board based on a 32 bit processor (Atmel SAM3X8E ARM Cortex-M3 MCU), which improves all the standard Arduino functionalities and adds many new features.

The arduino DUE offers 54 digital input/output pins (of which 16 can be used as PWM outputs, with selectable resolution), 12 analog inputs with 12 bits of resolution, 4 UARTs (hardware serial ports), two DAC (digital to analog converter) outputs, an 84 MHz crystal oscillator, two USB connections, a power jack, an ICSP header, a JTAG header, and a reset button.

The Due has two micro USB connectors: one intended for debugging purposes and a second one capable of acting as a USB host, allowing external USB peripherals such as mouse, keyboards, smartphones, etc. to be connected to the Arduino Due.
More information will be soon on line at the page http://arduino.cc/ArduinoDUE

Technical Specifications

Microcontroller	AT91SAM3X8E
Operating Voltage	3.3V
Input Voltage (recommended)	7-12V
Input Voltage (limits)	6-20V
Digital I/O Pins	54 (of which 16 provide PWMoutput)
Analog Input Pins	12
Analog Outputs Pins	2 (DAC)
Total DC Output Current on all I/O lines	130mA
DC Current for 3.3V Pin	800 mA
DC Current for 5V Pin	theoretical 1A, realistic 800 mA
Flash Memory	512 KB all available for the user applications
SRAM	96 KB (64 + 32 KB)
DataFlash	2 Mbit (250 KB)
Clock Speed	84 MHz

ARDUINO