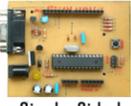


Evolution of Arduino

2005 2006 2007 2008



Old-style RS-232 serial port rather than USB.



Single-Sided Serial

Designed to be built on a home-etched PCB.



First board to bear the Arduino name.

Extreme

Adds female pin headers, data transfer LEDs.

NG (Nuova Generazione)



Severino (aka S3V3)

In 2005, a group at Italy's Interaction Design Institute Ivrea developed Arduino as a low-cost, easy-to-use electronics platform for students and artists. It borrows its name from nearby watering hole Bar di Re Arduino. Since exploding onto the maker scene, Arduino has cultivated a flourishing community of inventors, engineers, and hackers dedicated to sharing code and developing hardware under an open-source banner.

Atmel's 8-bit megaAVR microcontroller family is an Arduino signature.

ATmega8



First to ship with ATmega168.



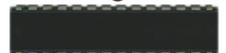
NG+



Bluetooth

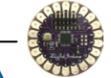
The ATmega168 doubles on-board memory to 16KB, but is otherwise nearly identical to the ATmega8.

ATmega168



Large 28-pin Plastic Dual In-line Package (PDIP-28) for through-hole soldering.

Sew-through contact pads for connecting conductive thread.



LilyPad



Nano

Underside pins for breadboard connection.

Thin Quad Flat Package (TQFP) designed for surface-mount soldering.



First board to use surface-mount processor.



Mini



Diecimila



Duemilanove

Designed for battery-powered wireless projects.

Very thin Quad Flat No-lead (VQFN) package replaces leads with underside pads.

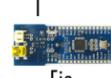


Auto-selects power supply. First to ship with ATmega328.



Duemilanove

Nano



Fio

On-chip memory doubles again to 32KB.

ATmega328



Designed for semipermanent installation.



Pro

Nano



LilyPad

Replaces sew-through contacts with button snaps.



Mini form-factor compatible.

Pro Mini



Uno



Ethernet



LilyPad Simple



LilyPad Simple Snap

The Mega took Arduino to a new level, quadrupling on-chip memory to 128KB and more than tripling the total number of I/O and input pins in a significantly larger form factor.

ATmega1280



Official reference model for Arduino platform.



Mega

Emulates mouse and keyboard over USB.



Leonardo



LilyPad USB

ATmega32u4

Integrates USB controller into processor chip.



With the Mega2560, memory doubled again to 256KB. Though larger, the new form factor remains pin-compatible with the standard Arduino shield footprint.

ATmega2560



Mega2560

Mega update for use with Android Accessory Development Kit (ADK).



ADK

First dual-core model, combining ATmega32u4 with MIPS embedded Linux machine (expected late 2013).

The Due marks Arduino's first departure from the AVR architecture. The ATSAM3X8E is an ARM Cortex M3 processor with twice the memory and four times the clock speed of the ATmega2560.

ATSAM3X8E



Co-founder Banzai interviewed on TWiT.

Arduino IDE begins rapid development.

300,000 Arduinos "in the wild."



First Arduino to mount 32-bit processor. Runs at 3.3V rather than 5V.

2009 2010 2011 2012 2013