

## Intel® Galileo: What Will You Make?

SANTA CLARA, Calif., July 14, 2014 – Intel® Galileo is the first in a family of Arduino\* Certified development boards based on Intel® architecture and is designed specifically for makers, students, educators and DIY electronics enthusiasts. The second generation Intel® Galileo board was [introduced today](#).

First [announced](#) at the Rome Maker Faire\* in October 2013, Intel Galileo boards are a family of versatile prototyping and development platforms designed for easy development for novice developers, artists and those looking to take their designs for interactive systems to the next level.

The simplest way to program Intel Galileo is by using the Arduino Integrated Development Environment (IDE). The Arduino software programming interface and line of open source hardware development kits are known worldwide for their usability.

Combining an easy-to-use development environment with the power of an Intel® Quark™ SoC x1000, [the Intel Galileo board](#) empowers enthusiasts of all ages to unleash their imagination and inner creativity, whether they are making simple interactive LED light displays that respond to social media or tackling more complex projects from automating home appliances to building life-size robots.

With so many people able to freely share ideas and spread inspiration across the web, electronics enthusiasts around the world are getting bitten by the “maker” bug. World changing ideas and inventions will emerge from this passionate community.

### [Intel Galileo: Under the Hood](#)

Intel Galileo Gen 2 features the Intel Quark SoC X1000, the first from the Intel Quark technology family of low-power, small-core products that are extending Intel architecture into the rapidly growing area of the Internet of Things. The Intel Quark SoC X1000 is a 32-bit, single core, single-thread, Pentium® instruction set architecture (ISA)-compatible CPU, operating at speeds up to 400 MHz. The Intel Galileo Gen 2 development board:

- Combines the simplicity of the Arduino\* development environment with the performance of Intel® technology and the capabilities of a full Linux\* software stack
- Runs an open source Linux operating system (Yocto 1.4, Poky Linux release)
- Can be programmed through the Arduino IDE on Mac OS\*, Microsoft Windows\* and Linux host operating systems
- Is designed to be hardware- and pin-compatible with a wide range of Arduino Uno R3 shields
- Supports a wide range of industry standard I/O interfaces, including a full-sized mini-PCI Express\* slot, 100 Mb Ethernet port, Micro-SD slot, USB host port and USB client port
- Now with Intel Galileo Gen 2, features 12 fully native GPIOs for greater speed and improved drive strength
- Features a variety of new I/O interfaces on Intel Galileo Gen 2 – including a 6-pin USB TTL serial connector and a full-size USB host port – for easier connections to a wide range of shields and peripheral hardware
- Is now 12V Power-over-Ethernet ready

## Intel Galileo in Education

Intel believes making is a great way for children and adults to become excited about science, technology, engineering and math (STEM) education.

- In October 2013, Intel announced a large-scale donation of 50,000 Intel Galileo boards to universities worldwide, and it will be halfway to reaching its goal by the end of summer.
- Intel is working with [18 universities](#) around the world to develop curricula based on the Intel Galileo board.

## Availability

Intel Galileo Gen 2 is available through retailers and online in Aug. around the world. Visit <http://maker.intel.com> for information on where to buy and to learn more about Intel Galileo.

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CONTACT: Alison Wesley  
[alison.e.wesley@intel.com](mailto:alison.e.wesley@intel.com)