

Lamaplc: Arduino

Arduino is an open-source hardware and software company, project, and user community that designs and manufactures single-board microcontrollers and microcontroller kits for building digital devices. Its hardware products are licensed under a CC BY-SA license. In contrast, the software is licensed under the GNU Lesser General Public License (LGPL) or the GNU *General Public License* (GPL), permitting anyone to manufacture Arduino boards and distribute the software. Arduino boards are available commercially from the official website or through authorized distributors.



Arduino board designs use a variety of microprocessors and controllers. The boards are equipped with sets of digital and analog input/output (I/O) pins that can be interfaced with various expansion boards ('*shields*'), breadboards (for prototyping), and other circuits. The boards feature serial communications interfaces, including Universal Serial Bus (USB) on some models, which are also used for loading programs. Microcontrollers can be programmed using the C and C++ programming languages, utilizing a standard API, also known as the Arduino Programming Language, which is inspired by the Processing language and is used with a modified version of the Processing IDE.

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