Legend

This site is meant to make it easy to find the best open source board for your project by allowing quick comparison of open source hardware available at Mouser.com.

● : On board. ○ : Possible using add on/daughter boards. — : Not Supported.*

To sort on multiple columns hold down shift when you click.

Manufacturer	Board	Processor	Processor Speed	Cores	Flash	RAM	SD Card Slot	WiFi	Bluetooth	RF	Display	Touchscreen	User LEDs	10/100 Ethernet	CAN	USB Host	USB Client	USB OTG	UART	SPI	I²C	HDMI	JTAG/ICE	Digital I/O	Analog Inputs	PWM	Audio IN	Audio OUT	Real Time Clock
Arduino	Arduino Uno	Atmel ATmega328	16 MHz	1	32 KB	2 KB	○	○	—	○	—	—	●	○	—	—	—	—	●	●	●	—	—	14	6	●	—	—	—
Arduino	Arduino Due	Atmel SAM3X8E	84 MHz	1	512 KB	96 KB	○	○	—	—	—	—	●	○	●	●	●	●	●	●	●	—	●	54	12	●	—	●	●
Arduino	Arduino Yún	Atmel ATmega32u4 Atheros AR9331	16 MHz 400 MHz	1 1	16 MB	64 MB	●	●	—	—	—	—	●	●	—	●	●	—	●	●	●	—	—	20	12	●	—	—	—
Arduino	Arduino Micro	Atmel ATmega32u4	16 MHz	1	32 KB	2.5 KB	—	—	—	—	—	—	●	—	—	—	●	—	●	●	●	—	—	20	12	●	—	—	—
Arduino	Arduino Esplora	Atmel ATmega32u4	16 MHz	1	32 KB	2.5 KB	—	—	—	—	—	—	●	—	—	—	●	—	●	●	—	—	—	0	0	—	—	—	—
Arduino	Arduino Mega 2560	Atmel ATmega2560	16 MHz	1	256 KB	8 KB	○	○	—	○	—	—	●	○	—	—	—	—	●	●	●	—	—	54	16	●	—	—	—
Arduino	Arduino Mega ADK	Atmel ATmega2560	16 MHz	1	256 KB	8 KB	○	○	—	○	—	—	●	○	—	●	—	—	●	●	●	—	—	54	16	●	—	—	—
Arduino	Arduino Mini	Atmel ATmega328	16 MHz	1	32 KB	2 KB	—	—	—	—	—	—	—	—	—	—	—	—	●	●	●	—	—	14	8	●	—	—	—
Arduino	Arduino Leonardo	Atmel ATmega32u4	16 MHz	1	32 KB	2.5 KB	—	○	—	—	—	—	●	—	—	—	●	—	●	●	●	—	—	20	12	●	—	—	—
Arduino	Arduino Fio	Atmel ATmega328	8 MHz	1	32 KB	2 KB	—	—	—	●	—	—	●	—	—	—	—	—	●	●	●	—	—	14	8	●	—	—	—
Gravitech	Arduino Nano 3.0	Atmel ATmega328	16 MHz	1	32 KB	2 KB	—	—	—	—	—	—	●	—	—	—	—	—	●	●	●	—	—	14	8	●	—	—	—
Intel	Edison	Intel® Edison SoC	500 MHz	2	4000 MB	1000 MB	●	●	●	●	—	—	—	—	—	—	—	●	●	●	●	—	●	20	6	●	—	—	—
Intel	Galileo	Intel® Quark SoC X1000	400 MHz	1	8 MB	256 MB	●	○	—	—	—	—	—	●	—	●	●	—	●	●	●	—	●	14	6	●	—	—	●
Arduino	Arduino Robot	Atmel ATmega32u4	16 MHz	1	32 KB	2.5 KB	●	—	—	—	●	—	—	—	—	—	●	—	●	●	●	—	—	9	16	●	—	●	—
Arduino	Arduino Ethernet	Atmel ATmega328	16 MHz	1	32 KB	2 KB	—	—	—	—	—	—	—	●	—	—	—	—	●	●	●	—	—	14	6	●	—	—	—
STMicroelectronics	STM32F4 Nucleo	STMicroelectronics STM32F4	84 MHz	1	512 KB	96 KB	○	○	●	○	—	—	●	○	●	—	●	—	○	●	●	—	—	36	16	●	—	—	●
STMicroelectronics	STM32F0 Nucleo	STMicroelectronics STM32F0	48 MHz	1	64 KB	8 KB	○	○	—	○	—	—	●	○	●	—	●	—	●	●	●	—	●	20	16	●	—	—	●
STMicroelectronics	STM32F103 Nucleo	STMicroelectronics STM32F103	72 MHz	1	128 KB	20 KB	○	○	—	○	—	—	●	○	●	—	●	—	●	●	●	—	●	38	14	●	—	—	●
STMicroelectronics	STM32L Nucleo	STMicroelectronics STM32L	32 MHz	1	512 KB	96 KB	○	○	—	○	—	—	●	○	●	—	●	—	●	●	●	—	●	32	20	●	—	—	●
Texas Instruments	MSP432 LaunchPad	Texas Instruments MSP432P401R	48 MHz	1	256 KB	4 KB	—	○	—	○	○	—	●	—	—	●	—	—	●	●	●	—	●	48	24	○	—	—	●
Texas Instruments	MSP430 LaunchPad	Texas Instruments MSP430G2	16 MHz	1	16 KB	.5 KB	—	○	○	○	○	○	●	—	—	—	●	—	●	●	●	—	●	18	12	○	○	○	—
Texas Instruments	MSP430 LaunchPad - USB	Texas Instruments MSP430F5529	25 MHz	1	128 KB	8 KB	—	○	○	○	○	○	●	—	—	●	●	—	●	●	●	—	●	17	8	○	○	○	—
Texas Instruments	C2000 LaunchPad	Texas Instruments C2000 TMS320F28027	60 MHz	1	128 KB	64 KB	—	○	○	○	—	○	●	—	—	—	●	—	●	●	●	—	●	22	13	●	—	—	—
Texas Instruments	C2000 LaunchPad - InstaSPIN-FOC	Texas Instruments C2000 TMS320F28027F	60 MHz	1	64 KB	12 KB	—	○	○	○	—	○	●	—	—	—	●	—	●	●	●	—	●	22	13	●	—	—	—
Texas Instruments	Tiva C LaunchPad	Texas Instruments Tiva C TM4C123GH6PM	80 MHz	1	256 KB	32 KB	—	○	○	○	○	○	●	—	—	●	●	●	●	●	●	—	●	43	8	●	—	—	—
Texas Instruments	Hercules TMS570 LaunchPad	Texas Instruments Hercules TMS570	80 MHz	2	384 KB	32 KB	—	○	○	○	○	—	●	—	—	—	●	—	●	●	●	—	●	16	11	—	○	○	●
Texas Instruments	Hercules RM4 LaunchPad	Texas Instruments Hercules RM4	100 MHz	2	384 KB	32 KB	—	○	○	○	○	—	●	—	—	—	●	—	●	●	●	—	●	16	11	—	○	○	●
BeagleBoard.org	BeagleBoard-xM	Texas Instruments OMAP3530	1000 MHz	1	—	512 MB	●	○	○	—	○	—	●	●	—	●	●	●	●	●	●	●	●	53	0	●	—	●	●
BeagleBoard.org	BeagleBone	Texas Instruments AM3358	720 MHz	1	—	256 MB	●	○	○	—	○	—	●	●	●	●	●	—	●	●	●	—	○	65	7	●	—	○	—
BeagleBoard.org	BeagleBone Black	Texas Instruments AM3358	1000 MHz	1	2048 MB	512 MB	●	○	○	—	○	—	●	●	●	●	●	●	●	●	●	●	○	65	7	●	—	●	●
Netduino	Netduino Go	STMicroelectronics STM32F405	168 MHz	1	1 MB	100 KB	○	—	—	—	—	—	●	●	●	●	●	●	●	●	●	—	●	0	0	●	—	—	●

Netduino	Netduino 2	STmicroelectronics STM32F2	120 MHz	1	1 MB	60 KB	○	○	—	○	—	—	●	—	—	—	●	—	●	●	●	—	●	14	6	●	—	—	—
Netduino	Netduino Mini	Atmel AT91SAM7	48 MHz	1	512 KB	64 KB	—	—	—	—	—	—	—	—	—	—	●	—	●	●	●	—	—	4	4	●	—	—	—
Netduino	Netduino Plus	Atmel AT91SAM7	48 MHz	1	512 KB	42 KB	●	○	—	○	—	—	●	●	—	—	●	—	●	●	●	—	—	14	6	●	—	—	—
Netduino	Netduino Plus 2	STmicroelectronics STM32F4	168 MHz	1	1 MB	192 KB	●	○	—	○	—	—	●	●	—	—	●	—	●	●	●	—	●	14	6	●	—	—	—

* For the purposes of this tool, "not supported" means the feature is not on the board itself or a readily available add on/daughter card. This does not mean it is impossible to do, just that it will require more effort.

Mouser Electronics acknowledges that there are varying degrees of "openness" in open source, yet there is no easy way to determine or show this, therefore hardware self-identified as open source hardware is here, with more to come.

Information provided is subject to change by the Manufacturers. Please see product datasheets for the most acurate information.