

Manufacturer	Board	Processor	Bit Width	Processor Speed	Cores	Flash	RAM	SD Card Slot	WiFi	Bluetooth	RF	Display	Touch	User LEDs	10/100 Ethernet	CAN	USB Host	USB Client	UART	SPI	PC	HDMI	JTAG/ICE	Digital I/O	Analog Inputs	PWM
Adafruit	FLORA	ATmega32U4-AU	8	16MHz	1	32KB	2.5KB	—	—	—	—	—	—	●	—	—	—	●	—	●	—	—	—	8	4	●
Adafruit	Gemma	ATtiny85	8	20MHz	1	8KB	.5KB	—	—	—	—	—	—	●	—	—	—	●	—	●	●	—	—	5	1	●
Adafruit	Metro 328 Mini	ATmega328	8	16MHz	1	32KB	2KB	—	—	—	—	—	—	●	—	—	—	●	●	●	●	—	—	20	6	●
Adafruit	Metro 328	ATmega328	8	16MHz	1	32KB	2KB	—	—	—	—	—	—	●	—	—	—	●	●	●	●	—	—	20	6	●
Arduino	Arduino Uno	Atmel ATmega328	8	16MHz	1	32KB	2KB	○	○	—	○	—	—	●	○	—	—	—	●	●	●	—	—	14	6	●
Arduino	Arduino Mega 2560	Atmel ATmega2560	8	16MHz	1	256KB	8KB	○	○	—	○	—	—	●	○	—	—	—	●	●	●	—	—	54	16	●
Gravitech	Arduino Nano 3.0	Atmel ATmega328	8	16MHz	1	32KB	2KB	—	—	—	—	—	—	●	—	—	—	—	●	●	●	—	—	14	8	●
Intel	Arduino 101	Intel® Curie Module	32	32MHz	2	196KB	24KB	○	○	●	○	—	—	●	○	—	—	●	●	●	●	—	—	14	6	●
Intel	Edison	Intel® Edison SoC	32	500MHz	2	4000MB	1000MB	●	●	●	●	—	—	—	—	—	—	—	●	●	●	—	●	20	6	●
Intel	Galileo	Intel® Quark SoC X1000	32	400MHz	1	8MB	256MB	●	○	—	—	—	—	—	●	—	●	●	●	●	●	—	●	14	6	●
Arduino	Arduino Robot	Atmel ATmega32u4	8	16MHz	1	32KB	2.5KB	●	—	—	—	●	—	—	—	—	—	●	●	●	●	—	—	9	16	●
Cypress	Cypress FM4-176L-S6E2GM Pioneer Kit	Cypress FM4 S6E2GM8J0A	32	180MHz	1	192KB	1MB	—	○	○	○	○	○	●	●	●	●	●	●	●	●	—	●	14	6	●
Cypress	Cypress CY8CKIT-042-BLE	Cypress PSoC4 BLE	32	48MHz	1	128KB	1MB	○	○	●	○	○	●	●	○	—	—	●	●	●	●	—	—	14	6	●
NXP	FRDM-K64F Freedom	Kinetis MK64FN1M0VLL12	32	120MHz	1	1MB	256KB	●	○	○	○	○	○	●	●	○	●	●	●	●	●	—	●	16	6	○
Digilent	chipKIT uC32	PIC32MX340F512H	32	80MHz	1	512KB	32KB	○	○	○	○	○	—	●	○	—	—	—	●	●	●	—	●	42	12	●
UDOO	UDOO Neo	Freescale i.MX 6SoloX	32	1000MHz	2	—	512MB	●	●	●	—	○	○	●	●	●	●	—	●	●	●	●	●	36	6	●
STMicroelectronics	STM32F4 Nucleo	STmicroelectronics STM32F4	8	84MHz	1	512KB	96KB	○	○	●	○	—	—	●	○	●	—	●	○	●	●	—	—	36	16	●
STMicroelectronics	STM32F0 Nucleo	STMicroelectronics STM32F0	32	48MHz	1	64KB	8KB	○	○	—	○	—	—	●	○	●	—	●	●	●	●	—	●	20	16	●
STMicroelectronics	STM32F103 Nucleo	STMicroelectronics STM32F103	32	72MHz	1	128KB	20KB	○	○	—	○	—	—	●	○	●	—	●	●	●	●	—	●	38	14	●
STMicroelectronics	STM32L Nucleo	STMicroelectronics STM32L	32	32MHz	1	512KB	96KB	○	○	—	○	—	—	●	○	●	—	●	●	●	●	—	●	32	20	●
Texas Instruments	MSP432 LaunchPad	Texas Instruments MSP432P401R	32	48MHz	1	256KB	4KB	—	○	—	○	○	—	●	—	—	●	—	●	●	●	—	●	48	24	○
Texas Instruments	MSP430 LaunchPad	Texas Instruments MSP430G2	16	16MHz	1	16KB	.5KB	—	○	○	○	○	○	●	—	—	—	●	●	●	●	—	●	18	12	○
Texas Instruments	MSP430 LaunchPad - USB	Texas Instruments MSP430F5529	16	25MHz	1	128KB	8KB	—	○	○	○	○	○	●	—	—	●	●	●	●	●	—	●	17	8	○
Texas Instruments	C2000 LaunchPad	Texas Instruments C2000 TMS320F28027	32	60MHz	1	128KB	64KB	—	○	○	○	—	○	●	—	—	—	●	●	●	●	—	●	22	13	●
Texas Instruments	C2000 LaunchPad - InstaSPIN-FOC	Texas Instruments C2000 TMS320F28027F	32	60MHz	1	64KB	12KB	—	○	○	○	—	○	●	—	—	—	●	●	●	●	—	●	22	13	●

Manufacturer	Board	Processor	Bit Width	Processor Speed	Cores	Flash	RAM	SD Card Slot	WiFi	Bluetooth	RF	Display	Touch	User LEDs	10/100 Ethernet	CAN	USB Host	USB Client	UART	SPI	PC	HDMI	JTAG/ICE	Digital I/O	Analog Inputs	PWM
Texas Instruments	Tiva C LaunchPad	Texas Instruments Tiva C TM4C123GH6PM	16	80MHz	1	256KB	32KB	—	○	○	○	○	○	●	—	—	●	●	●	●	●	—	●	43	8	●
Texas Instruments	Hercules TMS570 LaunchPad	Texas Instruments Hercules TMS570	16	80MHz	2	384KB	32KB	—	○	○	○	○	—	●	—	—	—	●	●	●	●	—	●	16	11	—
Texas Instruments	Hercules RM4 LaunchPad	Texas Instruments Hercules RM4	32	100MHz	2	384KB	32KB	—	○	○	○	○	—	●	—	—	—	●	●	●	●	—	●	16	11	—
BeagleBoard.org	BeagleBoard-xM	Texas Instruments OMAP3530	32	1000MHz	1	—	512MB	●	○	○	—	○	—	●	●	—	●	●	●	●	●	●	●	53	0	●
BeagleBoard.org	BeagleBone	Texas Instruments AM3358	32	720MHz	1	—	256MB	●	○	○	—	○	—	●	●	●	●	●	●	●	●	—	○	65	7	●
BeagleBoard.org	BeagleBone Black	Texas Instruments AM3358	32	1000MHz	1	2048MB	512MB	●	○	○	—	○	○	●	●	●	●	●	●	●	●	●	○	65	7	●
Seeed Studio	Beaglebone Green	TI AM3358	32	1000MHz	1	4000MB	512MB	●	○	○	—	○	○	●	●	●	●	●	●	●	●	○	●	65	7	●
Netduino	Netduino Go	STmicroelectronics STM32F405	32	168MHz	1	1MB	100KB	○	—	—	—	—	—	●	●	●	●	●	●	●	●	—	●	0	0	●
Netduino	Netduino 2	STmicroelectronics STM32F2	32	120MHz	1	1MB	60KB	○	○	—	○	—	—	●	—	—	—	●	●	●	●	—	●	14	6	●
Netduino	Netduino Mini	Atmel AT91SAM7	32	48MHz	1	512KB	64KB	—	—	—	—	—	—	—	—	—	—	●	●	●	●	—	—	4	4	●
Netduino	Netduino Plus	Atmel AT91SAM7	32	48MHz	1	512KB	42KB	●	○	—	○	—	—	●	●	—	—	●	●	●	●	—	—	14	6	●
Netduino	Netduino Plus 2	STmicroelectronics STM32F4	32	168MHz	1	1MB	192KB	●	○	—	○	—	—	●	●	—	—	●	●	●	●	—	●	14	6	●

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.

* 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 accurate information.