Comparison of single-board microcontrollers

Comparison of Single-board microcontrollers excluding Single-board computers

Name	Maker	opensource?	Processor		Format	
			Processor	Frequency		Dimensions
Arduino / Genuino MKR1000	Arduino	Yes	ATSAMW25 (made of SAMD21 Cortex-M0+ 32 bit ARM MCU, WINC1500 2.4 GHz 802.11 b/g/n Wi-Fi, and ECC508 crypto device)	48 MHz	minimal	61.5 mm x 25 mm
Arduino 101[1] Genuino 101	Arduino	Yes	Intel® Curie™ module[2] two tiny cores, an x86 (Quark SE) and an ARC	32 MHz	Arduino / Genuino	68.6 mm × 53.4 mm [2.7 in × 2.1 in]
Arduino Zero[3]	Arduino	Yes	ATSAMD21G18A[4]	48 MHz	Arduino	2.7 in × 2.1 in [68.6 mm × 53.3 mm]
Arduino Due[8][9]	Arduino	Yes	ATSAM3X8E[10] (Cortex-M3)	84 MHz	Mega	4 in × 2.1 in [101.6 mm × 53.3 mm]
Arduino Yún[15]	Arduino	Yes	Atmega32U4,[16] Atheros AR9331	16 MHz, 400 MHz	Arduino	2.7 in × 2.1 in [68.6 mm × 53.3 mm]
Arduino Leonardo[18]	Arduino	Yes	Atmega32U4[16]	16 MHz	Arduino	2.7 in × 2.1 in [68.6 mm × 53.3 mm]
Arduino Uno[20]	Arduino	Yes	ATmega328P[21]	16 MHz	Arduino	2.7 in × 2.1 in [68.6 mm × 53.3 mm]
Arduino Mega2560[24]	Arduino	Yes	ATmega2560[25]	16 MHz	Mega	4 in × 2.1 in [101.6 mm × 53.3 mm]
Arduino Ethernet[26]	Arduino	Yes	ATmega328[27]	16 MHz	Arduino	2.7 in × 2.1 in [68.6 mm

						× 53.3 mm]
Arduino Fio[30]	Arduino	Yes	ATmega328P[21]	8 MHz	minimal	2.6 in × 1.1 in [66.0 mm × 27.9 mm]
Arduino Nano[32]	Arduino	Yes	ATmega328[27] (ATmega168 before v3.0[33])	16 MHz	minimal	1.70 in × 0.73 in [43.18 mm × 18.54 mm]
LilyPad Arduino[36]	Arduino	Yes	ATmega168V or ATmega328V	8 MHz	wearable	2 in ⌀51 mm ⌀

Arduino Pro [38]	Arduino	Yes	ATmega168 or ATmega328[38]	16 MHz	Arduino	2.05 in × 2.1 in [52.1 mm × 53.3 mm]
Arduino Mega ADK[39]	Arduino	Yes	ATmega2560[25]	16 MHz	Mega	4 in × 2.1 in [101.6 mm × 53.3 mm]
Arduino Esplora[40]	Arduino	Yes	Atmega32U4[16]	16 MHz		6.5 in × 2.4 in [165.1 mm × 61.0 mm]
Arduino Micro[41]	Arduino	Yes	ATmega32U4[16]	16 MHz	Mini	0.7 in × 1.9 in [17.8 mm × 48.3 mm]
Arduino Pro Mini	Arduino	Yes	ATmega328	8 (3.3 V)/16 (5 V) MHz	Mini	0.7 in × 1.3 in [17.8 mm × 33.0 mm]
Serial Arduino[43]	Arduino	Yes	ATmega8[44]	16 MHz	Arduino	3.2 in × 2.1 in [81.3 mm × 53.3 mm]
Arduino USB[45]	Arduino	Yes	ATmega8[44]	16 MHz	Arduino	3.2 in × 2.1 in [81.3 mm × 53.3 mm]
Arduino Extreme[45]	Arduino	Yes	ATmega8[44]	16 MHz	Arduino	3.2 in × 2.1 in [81.3 mm × 53.3 mm]
Arduino NG (*Nuova Generazione*)[45]	Arduino	Yes	ATmega8[44]	16 MHz	Arduino	3.2 in × 2.1 in [81.3 mm × 53.3 mm]

Arduino NG plus	Arduino	Yes	ATmega168[33]	16 MHz	Arduino	3.2 in × 2.1 in [81.3 mm × 53.3 mm]
Arduino BT (Bluetooth)[46]	Arduino	Yes	ATmega168[33] ATmega328[27]	16 MHz	Arduino	3.2 in × 2.1 in [81.3 mm × 53.3 mm]
Arduino Diecimila[48]	Arduino	Yes	ATmega168 (DIP-28)[33]	16 MHz	Arduino	2.7 in × 2.1 in [68.6 mm × 53.3 mm]
Arduino Duemilanove (*2009*)[49]	Arduino	Yes	ATmega168,[33] ATmega328P (ATmega328 for newer version)	16 MHz	Arduino	2.7 in × 2.1 in [68.6 mm × 53.3 mm]
Arduino Mega[51]	Arduino	Yes	ATmega1280[52]	16 MHz	Mega	4 in × 2.1 in [101.6 mm × 53.3 mm]
Arduino Mini[55]	Arduino	Yes	ATmega168[33] (Pro uses ATMega328)	8 MHz (3.3 V model) or 16 MHz (5 V model)		0.7 in × 1.3 in [17.8 mm × 33.0 mm]

Canaduino Uno Bone (https://universal-solder.com/product/canaduino-uno-bone-maxxx-arduino-uno-r3-compatible-atmega328p-pu)	Universal Solder (universal-solder.com (http://www.universal-solder.com))	Yes	Atmega328P-PU	16 MHz		
ST1	Sanjay Technologies (sanjaytechnologies.co.in)[57]	Yes	ATmega328			
ST Freeduino Robotics Board	Sanjay Technologies (sanjaytechnologies.co.in)[58]	Yes	ATmega328			
GSTduino	Green System Technology[59]	Yes	ATmega328	16 MHz		55 mm x 45 mm
Linduino One	Linear Technology Corporation[60]	Yes	ATmega328			
InVentor UNO[61]	Ventor Technologies[62]	Yes	ATmega328P-PU			
InvIoT U1	InvIoT.com[63]		ATmega328P-PU			

Bluno	DFRobot.com		ATmega328			
AVR.duino U+	SlicMicro.com		ATmega328			
SainSmart UNO[64]	SainSmart[65]		ATmega328			
SainSmart Mega 2560[66]	SainSmart[65]		ATmega2560[25]			
Freaduino MEGA2560[67]	ElecFreaks[68]		ATmega2560[25]			
SainSmart UNO R3[69]	SainSmart[65]		ATmega328-AU			

AVR-Duino[70]	TavIR[71]					
Brasuíno[72]	Holoscópio[73]					
ChibiDuino2[74]	TiisaiDipJp[74]		ATmega328			
Cosmo Black Star[75]	JT5[76]		ATmega328			
CraftDuino[77]	Manufactured and sold by RoboCraft Team.					
CT UNO (http://www.cytron.com.my/p-ct-uno)	Cytron Technologies (http://www.cytron.com.my/)		ATmega328P			
CT ARM (Cytron ARM Cortex M0) (http://www.cytron.com.my/p-ct-arm)	Cytron Technologies (http://www.cytron.com.my/)		NUC131LD2AE (32-bit ARM Cortex-M0)	50 MHz	Arduino	2.7 in × 2.1 in [68.6 mm × 53.3 mm]
Diavolino[78]	Evil Mad Scientist Laboratories					
DuinoBot v1.x[79]	RobotGroup Argentina[80]		ATmega32U4			

eJackino[81]	Kit by CQ publisher in Japan.					
gizDuino Version 5.0V	e-gizmo		Atmega168, Atmega328			
Elektor Platino[82] universal AVR board	Elektor		ATmega8, ATmega16, ATmega32, ATmega88, ATmega164, ATmega168, ATmega324, ATmega328, ATmega644, ATmega1284			
fayaduino Series[83]	Manufactured and sold by Taiwan-based kit company fayalab, with 100% compatible design to Genuino/Arduino.		fayalab[84]			
Freeduino MaxSerial[83]	Manufactured and sold assembled or as a kit by Fundamental Logic until May 2010.					
Freeduino SB[85]	Solarbotics Ltd.[86]		ATmega328			
Freeduino Through-Hole[87]	Manufactured and sold as a kit by NKC Electronics.					
Illuminato Genesis[88]			ATmega644			
InduinoX[89]	Simple Labs[90]		ATmega168/ATmega 328/ATmega 8			
Japanino[91]	A kit by Otonano Kagaku publisher in Japan.		ATmega168[33]			
1000Pads Luigino[92]						
Luigino328[93]			ATmega328			
metaboard[94]	Developed by Metalab, a hackerspace in Vienna.					
Rascal	Rascal Micro[95]		AT91SAM9G20 (ARM9)			
Raspduino[96]	Bitwizard[97]		ATmega328			
Romeo 2012[98]	DFRobot[99]		ATmega328			
Roboduino[100]						

Seeeduino[101]	SeeedStudio		v2.21 (Atmega168 or Atmega328) v3.0 (Atmega328)			
SunDuino[102]	Lothar Team Arduino PRO Compatible boards. (Poland)		ATmega8/88/168/328/16/32/324/644 and PIC18F2550/4550 PIC32MX320F128 and ButterFLY, STM32Discovery			
TwentyTen[103]	Freetronics[104]					
UDOO	SECO Inc.		Atmel SAM3X8E			
Volksduino[105]	Applied Platonics[106]					
Wiseduino[107]						
Xaduino	OBDIIworld		ATXmega128A3U	32 MHz		
YourDuinoRoboRED	Yourduino.com[108]		Atmel 328			
YourDuinoRobo1[109]	Yourduino.com[108]		Atmel 328			
ZArdino[110]	A kit created by Peter Ing		ATMega328			
Zigduino[111]	Logos Electromechanical[112]		ATmega128RFA1			

EtherTen[113]	Freetronics		ATmega328P			
EtherMega[114]	Freetronics		ATmega2560[25]			
USBDroid[115]	Freetronics		ATmega328P			
Eleven[116]	Freetronics		ATmega328P			
KitTen[117]	Freetronics		ATmega328P			
EtherDue[119]	Freetronics		ATSAM3X8E [10] (Cortex-M3)			
TAIJIUINO Due Pro [120]	Elechouse		ATSAM3X8E [10] (Cortex-M3)			
ShieldBuddy TC275 [121]	Hitex UK		Infineon Aurix TC275TP	200 MHz		
MBZ Pro Wifi	MaxBlitz (http://www.maxblitz.com/p/blog-page_15.html)		Atmega328P-PU			
Io:duino[122]	Railstars		AT90CAN128			
DFRobotShop Rover[123]			ATmega328			
Faraduino[124]	Developed by Middlesex University Teaching Resources.[125]		ATmega328			

Motoruino[129]	Guibot		ATmega328			
Alternator Regulator [130]			ATmega64M1			
ArduPilot[131]						
ArduIMU[131]						
FlyDuino Mega[132]	Paul Bake		ATmega 2560[25]			
Colibri[133]	JT5[76]		ATmega168[33]			
JeeNode[134]	Jeelabs		ATmega328			
ArduPhone[135]	Freetronics		ATmega1284P			
WTFDUINO[136]	Calum Knott		ATmega328p			
Tah[137]	Revealing Hour Creations[138]		ATmega32u4			

WIOT (http://WIOT.org)	ubld.it (http://ubld.it)		ATmega32u4			
XLR8 (http://www.aloriumtech.com/)	Alorium Technology		Altera MAX10 10M08 FPGA			
Controllino Mini[139]	Controllino		ATmega328			
Controllino Maxi[139]	Controllino		ATmega2560			
Controllino Mega[139]	Controllino		ATmega2560			
FA-DUINO 12RA[140]	Comfile Technology		Mega2560			
FA-DUINO 24RA[140]			Mega2560			
ARDBOX[141]	Industrial Shields		Atmega32U4			
Industruino[142]	Industruino		Atmega 32u4 or Atmega AT90USB1286			
Iono[143]	Sfera Labs		No integral board			
Ardweeny[144]	Solarbotics					
Banguino[145]	Dimitech (http://dimitech.com)		ATmega328			
SAM15x15 (http://www.avdweb.nl/arduino/samd21/sam-15x15.html)	avdweb (http://www.avdweb.nl/arduino/samd21/sam-15x15.html)		SAMD21G18			
Bare Bones Board[146] (BBB) and Really Bare Bones Board[147] (RBBB)	Modern Device					
BBFUINO (Breadboard Friendly Arduino Compatible) (http://www.cytron.com.my/p-bbfuino)	Cytron Technologies (http://www.cytron.com.my/)		ATmega328P			

BlockDuino[148]	Blockduino		ATmega8 ATmega328			
Boarduino[150]	Adafruit		ATmega168 or ATmega328			
Breaduino[151]	Applied Platonics[106]					
Croduino series[152]	e-radionica.com		ATmega328			
Cardboarduino[153]			ATmega168[33]			
Crumbuino-Nano[154]	chip45.com/[155]		ATmega328			
Crumbuino-Mega[156]	chip45.com/[155]		ATmega2560[25]			
Cuteduino (http://www.cytron.com.my/p-cuteduino)	Cytron Technologies (http://www.cytron.com.my/)		ATtiny85			
Digispark[157]	Digistump[158]		ATTiny85			
DragonFly[159]			ATmega1280[52]			
Femtoduino[160]	Femtoduino[161]		ATmega328P-MU			
Freeduino USB Mega 2560[162]	Bhasha Technologies[163]		ATmega2560[25]			

Freeduino Lite v2[164]	Bhasha Technologies[163]		ATmega8/168/328			
Freeduino Serial[165]	Bhasha Technologies[163]		ATmega8/168/328			
Freeduino NANO[161]	Bhasha Technologies[163]		ATmega328			
iDuino[160]						
IMUduino[166]	Femtoduino.com[167]		ATMega32u4			
JeeNode[168]	JeeLabs[169]		ATmega328P			
LCDuino[171]	Geppetto Electronics		ATmega328P			
LEDuino[172]						
Moteino[173]	LowPowerLab[174]		ATmega328P			

NavSpark[176]	SkyTraq[177]		Venus822 (Leon3 SPARC V8 compatible, 100 MHz 32-bit RISC)			
NB1A[178]						
NB2A[179]						
Nymph[180]			ATmega328P			
Oak Micros om328p[181]						
OpenTag[182]	Loggerhead Instruments		ATmega328p			
Paperduino[183]			ATmega168			
Photon[184]	Particle		STM32F205 [185] (Cortex-M3)			
PicoDuino [186]	Peter Misenko		ATTiny85			
Pro Micro[187]	Sparkfun and clones		ATmega32u4			
Rainbowduino[188]						
Sanguino[189]			ATmega644			

Seeeduino Mega[190]	SeeedStudio		ATmega2560[25]			
Sippino[191]	SpikenzieLabs					
SODAQ Mbili[192]	SODAQ		ATmega1284P			
Sparrow[193]	Open Home Automation		ATMega328P			
Spider Controller[194]						
Stickduino[195]						
Teensy 2.0[196]	PJRC (http://www.pjrc.com)		ATMEGA32U4 8 bit AVR 16 MHz [197]	16 MHz		
Teensy 2.0++[198]	PJRC (http://www.pjrc.com)		AT90USB1286 8 bit AVR 16 MHz[197]	16 MHz		
Teensy 3.0[199]	PJRC (http://www.pjrc.com)		MK20DX128 32 bit ARM Cortex-M4 48 MHz[197]	48 MHz		
Teensy 3.1/3.2[200]	PJRC (http://www.pjrc.com)		MK20DX256 32 bit ARM Cortex-M4 72 MHz[197]			

Teensy LC[201]	PJRC (http://www.pjrc.com)		MKL26Z64VFT4 ARM Cortex-M0+ 48 MHz[201]			
TinyDuino[202]	TinyCircuits[203]		ATmega328p			
TinyLily[204]	TinyCircuits[203]		ATmega328p			
Trinket[205]	Adafruit		ATTiny85			
Wireless Widget[206]						
Whisper Node AVR[207]	Wisen - Talk² (https://wisen.com.au)		ATmega328p			
ZB1[208]						
SunDuino2[102]			ATmega16/32/324/644			
OpenEnergyMonitor emonTx[209]			ATmega328			
panStamp[211]	panStamp[211]		ATmega328			
Microduino[213][214]	Microduino Studio		ATmega168/328/644/1284			
Versalino Uno[215]	Virtuabotix		ATmega328p			

LeoStick[216]	Freetronics		ATmega32U4			
Wattuino Nanite [217][218]	Watterott electronic (http://www.watterott.com)		ATtiny85/ATtiny841			
Wattuino Pro Mini PB[219]	Watterott electronic (http://www.watterott.com)		ATmega328PB			
PIC.duino Net	SlicMicro		PIC18F67J60			
Leaflabs Maple[220]	LeafLabs[221]		STM32 (Cortex-M3)	72 MHz		
Microchip chipKIT Uno32, Max32, WF32, DP32	Digilent[227]		PIC32			
Microchip chipKIT Wi-Fire	Digilent[227]		PIC32MZ	200 MHz		
Freescale Freedom[232]	Freescale[233]		Kinetis-L (Cortex-M0+)	48 MHz		
PRO Family[235]	Coridium[236]		ARM Cortex LPC1114 LPC1751 LPC1756			
Energia	Texas Instruments		MSP430			
Sakura board[239]	Renesas/Wakamatsu Tsusho Co.,Ltd		Renesas RX63N			
HiFive1[241]	SiFive		SiFive E31 32 bit RISC-V			

DAQduino (http://www.piccircuit.com/shop/pic-dev-board/187-icp12a-daqduino.html)	PICcircuit.com		PIC18F2550 or PIC18F2553			
CIKU (http://www.cytron.com.my/p-ciku)	Cytron Technologies (http://www.cytron.com.my/)		PIC18F4550 (http://www.microchip.com/wwwproducts/en/PIC18F4550)	48 MHz		
Chipino[242]	Howtronics[243]		PIC16F886-I/SP[244]			
Bambino 210 (http://www.micromint.com/index.php?option=com_content&view=article&id=199:bambino210&catid=53:products)	Microint USA		NXP LPC4330			
Cypress PSoC 4 Pioneer Kit (CY8CKIT-042)	Cypress		Cypress PSoC4 CY8C4245AXI-483			
Arduino Shield Compatible Propeller Board[245]	Parallax		Parallax Propeller			
Amicus18[247]			PIC			
Cortino[248]			ARM STM32			
Pinguino[249]			PIC			
Unduino[250]			PIC			
Netduino N2[251]	Wilderness Labs[251]	Yes	Cortex M3 (ARMv7-M)	120 MHz	Arduino	69mm x 53mm
Netduino N2 Plus[251]	Wilderness Labs[251]	Yes	Cortex M4 ARMv7E-M	168 MHz	Arduino	69mm x 53mm
Netduino N3[251]	Wilderness Labs[251]	Yes	Cortex-M4 (STM32F4) ARMv7E-M	168 MHz	Arduino	69mm x 53mm
Netduino N3 Ethernet[251]	Wilderness Labs[251]	Yes	Cortex-M4 (STM32F4) ARMv7E-M	168 MHz	Arduino	69mm x 53mm
Netduino N3 WiFi[251]	Wilderness Labs[251]	Yes	Cortex-M4 (STM32F4) ARMv7E-M	168 MHz	Arduino	69mm x 53mm

Vinculo[252]			Vinculum II			
FEZ Domino,[253] FEZ Panda,[254] and FEZ Panda II[255]			ARM	72 MHz		
TheUno[257]	MyFreescaleWebPage[257]		Freescale S08DZ60			
BigBrother[257]	MyFreescaleWebPage[257]		Freescale MCF51AC256			
BigBrother-USB[257]	MyFreescaleWebPage[257]		Freescale MCF51JM128			
Firebird32[258]			Coldfire			
Stampduino[259]	Parallax		PIC or Parallax SX			
STM32 Nucleo[260]	STMicroelectronics		STM32 Family			
SunDuinoPIC[102]			PIC18F2550 or PIC18F4550			
Breeze[261][262]			PIC			
VM2 (http://microrobotics.co.uk/vm2/vm2.php)	Micro-Robotics Ltd (http://microrobotics.co.uk)	No	STM32F103	72 MHz	VM2	52 mm x 48 mm

Contents

See also

Comparison of single-board computers

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