



Board Guide

2019 EDITION

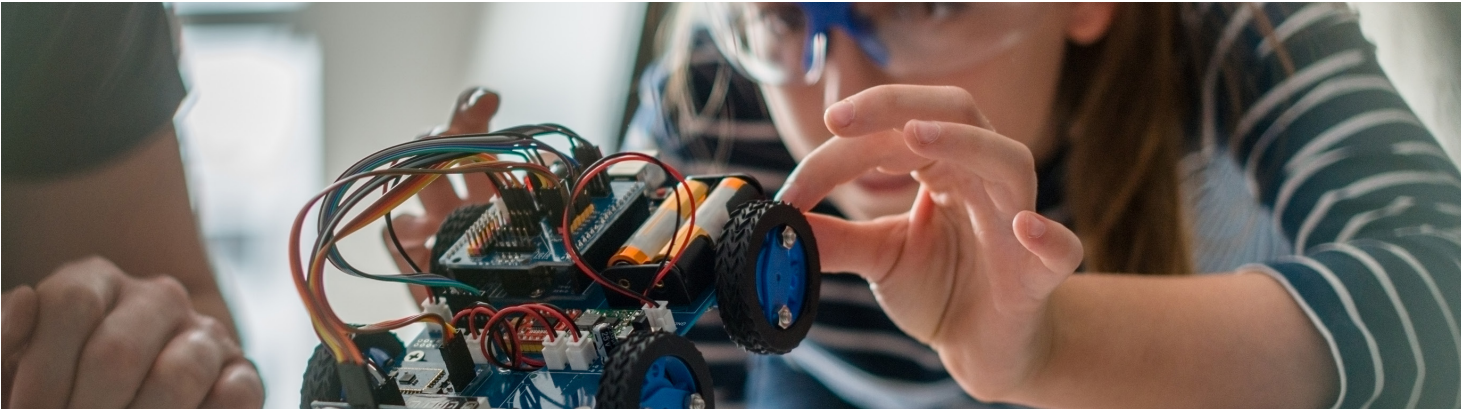
electromaker.io/board-guide

Electromaker’s guide to the top 100 boards.

By Les Pounder

Welcome to the second edition of the Electromaker board guide. A carefully researched and curated list of 100 boards worthy of your attention. We have taken an in-depth look at the specifications of 100 hand-picked boards, which will help you to choose the right hardware for your next project. We cover the classics of the community and unleash a few ‘up-and-coming’ platforms that will no doubt become future classics.

Whether you need rock solid timings for your mission-critical projects, or just want to blink an LED over the internet, you will find a board here that will suit your needs. From the humble Arduino Uno to the Udoo Bolt monster, we cover boards that have captured our interest. You can find our interactive board guide here: www.electromaker.io/board-guide



Board Name	Price	Dimensions	Software	Processor	Flash/RAM
4duino Mini Pro	\$21	43.75 x 18.5 x 1mm	Arduino	ATMega328P-AU	32KB FLASH, 2KB RAM
4duino Uno Pro	\$27	68.6 x 53.4mm	Arduino	ATMega328P-AU	32KB FLASH, 2KB RAM
Adafruit Feather M0 WiFi	\$34.95	53.65 x 23 x 8mm	Arduino	ATSAMD21G18	256KB FLASH, 32KB SRAM
Adafruit Circuit Playground Express	\$25.58	Diameter 50.6mm	Microsoft MakeCode, CircuitPython, Arduino	ATSAMD21 ARM Cortex M0	2MB
Adafruit Grand Central M4 Express	\$37.50	101.6x53.3x15.3mm	Arduino / CircuitPython	Cortex M4	1MB FLASH, 256KB RAM
Adafruit Feather M0 Express	\$19.95	51 x 23 x 8mm	Arduino, CircuitPython	ATSAMD21G18 ARM Cortex M0+	256KB of FLASH + 32KB of RAM
Adafruit Feather nRF52 Bluefruit LE	\$24.95	51 x 23 x 8mm	Arduino	ARM Cortex M4F	512KB FLASH and 64KB SRAM
Adafruit Flora	\$14.95	Diameter 45mm	Arduino	Atmega32u4	32KB FLASH
Adafruit Gemma M0	\$10.20	Diameter 27.94mm	Arduino, CircuitPython	ATSAMD21E18 32-bit Cortex M0+	256KB FLASH, 32 KB RAM
Adafruit Huzzah32 ESP32	\$20.45	51.0 x 22.7 x 7.3mm	Arduino	Tensilica LX6	4MB FLASH, 520KB SRAM
Adafruit ItsyBitsy 32u4	\$10.20	35.0 x 17.0 x 4.2mm	Arduino	ATmega32u4	28KB FLASH, 2KB RAM
Adafruit Metro 328	\$17.50	53 x 71mm	Arduino	ATmega328	32KB FLASH
Adafruit Metro M0 Express	\$25.58	71.12 x 53.34 x 7.1mm	Arduino, CircuitPython	ATSAMD21G18 ARM Cortex M0+	256KB of FLASH, 32KB of RAM
Adafruit Trinket 3.3V & 5V	\$7.13	27 x 15 x 4mm	Arduino	Attiny85	8KB FLASH, 512B RAM
Adafruit Trinket M0	\$8.95	27 x 15.3 x 2.75mm	Arduino, CircuitPython	ATSAMD21E18 32-bit Cortex M0+	256KB of FLASH, 32KB of RAM
Arduino MKR1000	\$37.20	61.55 x 25mm	Arduino	SAMD21 Cortex-M0+	256KB FLASH, 32KB RAM
Arduino MKR WiFi 1010	\$35.50	61.5 x 25mm	Arduino	Cortex-M0	256KB FLASH, 32KB SRAM
Arduino Mega	\$39.46	101.52 x 53.3mm	Arduino	ATmega2560	256KB FLASH, 8KB RAM
Arduino Micro	\$20.30	48 x 18mm	Arduino	ATmega32U4	32KB FLASH, 2.5KB RAM
Arduino MKR Zero	\$24.69	65 x 25mm	Arduino	SAMD21 Cortex-M0+ 32bit low power ARM MCU	256KB FLASH, 8KB RAM
Arduino Nano	\$36.29	18 x 45mm	Arduino	ATmega328	32KB FLASH, 2KB RAM
Arduino Uno	\$22.55	68.6 x 53.4mm	Arduino	ATmega328P	32KB FLASH, 2KB RAM
Arduino Zero	\$49.16	68 x 53mm	Arduino	ATSAMD21G18, 32-Bit ARM Cortex M0+	256KB of FLASH, 32KB of RAM
Arduino MKR FOX 1200	\$45.44	67.64 x 25mm	Arduino	Cortex-M0	256KB FLASH, 32KB SRAM
Bare Conductive Touch Board	\$133.19	135 x 108mm	Arduino	ATmega32u4	32KB FLASH, 2.5KB RAM
BBC micro:bit	\$19.73	50 x 40mm	Micro Python, MakeCode, JavaScript	ARM Cortex-M0 32 bit processor	256KB FLASH, 16KB RAM
BigClown IoT Core Module	\$34.30	33 x 55mm	BigClown Playground (node-RED)	Cortex M0+	192 KB FLASH, 20 KB RAM
Bolt IoT	\$57	35 x 35mm	Bolt Cloud Python URL	Tensilica Xtensa LX106	4MB FLASH, 96KB RAM
Codebug	\$22	37 x 48 x 11mm	Blocks, Python	PIC18(L)F25K50	32KB FLASH, 2K SRAM

Clock Speed	Digital Pins	Analogue Pins	Radio	Video	Ethernet/ WiFi	Input Voltage	Operating Voltage	Website
16MHz	14 (5 PWM)	8	–	–	–	5V	5V	shop.4tronix.co.uk
16MHz	15 (5 PWM)	8	–	–	–	5 - 12V	5V	–
48MHz	20	10	–	–	802.11 b/g/n	3.3 - 5V	3.3V	adafruit.com
48MHz	8 (4 PWM)	4	–	–	–	5V	3.3V	adafruit.com
120MHz	70	15	–	–	–	5 - 12V	3.3V	adafruit.com
48MHz	20	6	–	–	–	5V	3.3V	adafruit.com
64MHz	19	8	Bluetooth Low Energy	–	–	5V	3.3V	adafruit.com
8MHz	8	4	–	–	–	5V	3.3V	adafruit.com
48MHz	3	1	–	–	–	5V	3.3V	adafruit.com
240MHz	7	6	–	–	802.11 b/g/n	3.3V	3.3V	adafruit.com
8MHz (3.3V) 16MHz (5V)	23	6	–	–	–	5V	3.3V / 5V	adafruit.com
16MHz	20	3	–	–	–	5V	3.3V / 5V	shop.pimoroni.com
48MHz	25	12	–	–	–	3.3V	3.3V	adafruit.com
8MHz (3.3V) 16MHz (5V)	5	2	–	–	–	5V	3.3V / 5V	adafruit.com
48MHz	5	3	–	–	–	5V	5V	adafruit.com
48MHz	8	7	–	–	WINC1500 802.11 b/g/n	5V	3.3V	store.arduino.cc
48MHz	8	8	–	–	WiFi (ESP32)	5V	3.3V	store.arduino.cc
16MHz	54	16	–	–	–	7 - 12V	5V	store.arduino.cc
16MHz	20	12	–	–	–	7 - 12V	5V	store.arduino.cc
48MHz	22	7	–	–	–	5V	3.3V	store.arduino.cc
16MHz	22	8	–	–	–	7 - 12V	5V	store.arduino.cc
16MHz	14	6	–	–	–	7 - 12V	5V	store.arduino.cc
48MHz	20	6	–	–	–	5V	3.3V	store.arduino.cc
48MHz	8	8	Sigfox	–	–	3 - 5V	3.3V	store.arduino.cc
16MHz	20	12	–	–	–	5V	5V	bareconductive.com
16MHz	19	6	Bluetooth Low Energy	–	–	5V	3V	tech.microbit.org
	18	7	SPIRIT1 868/915MHz	–	–	5V	3.3V	shop.bigclown.com
80MHz	5	1	–	–	ESP8266	5V	3.3V	boltiot.com
16MHz	4	4	–	–	–	5V or 3V	3V	codebug.org.uk

Board Name	Price	Dimensions	Software	Processor	Flash/RAM
Calliope Mini	\$49.95	85 x 85 x 13mm	MicroPython Makecode JavaScript	32-bit ARM Cortex M0	256KB FLASH 16KB RAM
Crumble	\$17	52 x 33mm	Block Language	PIC16F1454	14KB FLASH 1KB RAM
DFRobot Leonardo with Xbee	\$20.40	70 x 55x14mm	Arduino	ATmega32u4	32KB FLASH, 2.5KB RAM
Espressif Systems ESP32-DevKitC	\$10	48.2 x 27.9mm	Lua, MicroPython	Tensilica Xtensa LX6	2MB FLASH, 520KB SRAM
Espruino	\$53.24	54 x 41mm	JavaScript	ARM Cortex M3	256KB FLASH, 48KB RAM
Espruino Pico	\$33.25	33 x 15mm	JavaScript	ARM Cortex M4	384KB FLASH, 96KB RAM
Espruino Puck.js	\$39.95	Diameter 36mm	JavaScript	Cortex M4 processor	64KB RAM, 512KB FLASH
Espruino WiFi	\$46.58	30 x 23mm	JavaScript	ARM Cortex M4	512KB FLASH, 128KB RAM
Haloboard	–	45 x 45mm	Scratch 3, Python	Xtensa® Dual-Core 32-bit LX6 Microprocessor ESP32	4MB FLASH, 520KB SRAM
LilyPad Arduino	\$16.35	Diameter 50mm	Arduino	ATmega168 Or ATmega328V	16KB FLASH, 1KB SRAM
Particle Argon - nRF52840	\$27.50	51.0 x 23.0 x 15.5mm	Web IDE, Microsoft Visual Studio	ARM Cortex-M4F	1MB FLASH, 256KB RAM
Particle Boron LTE - nRF52840	\$55	51.8 x 22.8 x 15.3mm	Web IDE, Microsoft Visual Studio	ARM Cortex-M4F	1MB FLASH, 256KB RAM
Particle Electron 2G	\$49	50.8 x 20.32mm	Arduino	STM32F205 ARM Cortex M3	1MB FLASH, 128K RAM
Particle Electron 3G	\$82.61	50.8 x 20.32mm	Arduino	STM32F205 ARM Cortex M3	1MB FLASH, 128K RAM
Particle Photon	\$21.01	36.58 x 20.32 x 6.86	Arduino	STM32F205 ARM Cortex M3	1MB FLASH, 128K RAM
Pyboard v1.1	\$47.93	43.18 x 41.91mm	Micro Python	Cortex M4	1024KB FLASH, 192KB RAM
SparkFun Blynk Board	\$30.70	50.8 x 42.164mm	Android, iOS, Arduino	ESP8266	4MB FLASH, 50KB SRAM
SparkFun ESP32 Thing	\$20.45	59.69 x 25.4mm	ESP-IDF Toolchain, Arduino	Dual-core Tensilica LX6 / ESP32	16MB FLASH, 520KB RAM
Teensy 3.5	\$33.31	62.3 x 18.0 x 4.2mm	Teensy Loader, Arduino	Cortex-M4F	512KB FLASH 192KB RAM
Teensy 3.6	\$34.65	60.96 x 17.78mm	Teensy Loader, Arduino	Cortex-M4F	1024KB FLASH 256KB RAM
Wemos D1	\$6	68.6 x 53.4mm	Arduino	ESP8266	4MB FLASH
WiPy 3.0	\$19.95	42 x 20mm	Micro Python	Xtensa® dual-core 32-bit LX6	8MB FLASH 520KB RAM
Arduino Yun 2	\$61	68.6 x 53.4mm	Linux	Atheros AR9331 ATmega32U4	64MB RAM, 16MB FLASH Linux CPU, 2.5Kb SRAM, 32KB FLASH
Asus Tinker Board	\$60	85.6 x 53.98mm	Linux / Android	Quad Core 64-bit RK3288	2GB
Asus Tinker Board S	\$89	85.6 x 53.98mm	Linux / Android	Quad Core RK3288	2GB 16GB eMMC
Banana Pi M2 Ultra	\$54	92 x 60mm	Linux	Quad Core ARM Cortex A7	2GB RAM, 8GB eMMC
Banana Pi M64	\$52	92 x 60mm	Linux	Quad Core ARM Cortex A53	2GB RAM 8GB eMMC
Beaglebone Black	\$86.45	86.36 x 53.34mm	Linux	32-bit AM335X ARM Cortex A8	512MB RAM, 4GB eMMC
CubieBoard6	\$69	100 x 60mm	Android / Linux	Quad-core Cortex A9	2GB, 8GB eMMC
HiKey 960	\$249.99	85 x 55mm	Android (AOSP)	Quad-core Cortex A7 & Quad-core Cortex A53	3GB RAM, 32GB FLASH
LattePanda 2G/32G	\$113.80	88 x 70 mm	Windows 10	Quad Core 64-bit Intel Cherry Trail & ATmega32u4	2GB/32GB
LattePanda	\$318	115 x 78 x 14 mm	Windows Linux, OSX	Intel 7th Gen Core m3-7y30	8GB RAM 64GB eMMC v5.0 M.2 Key PCIe slot
Le Potato AML-S905X-CC	\$35	87 x 58.5 x 19.1mm	Linux / Android	Quad-core ARM Cortex-A53	2GB
Libre Computer Renegade Elite	\$ 100	120 x 72 x 11.9mm	Linux / Android	Dual Core ARM Cortex-A72 Quad Core ARM Cortex-A53	4GB RAM eMMC 5.x Interface
Libre Computer Tritium	\$40	86.9 x 58.5 x 19.1mm	Linux / Android	Quad Core ARM Cortex A53	2GB RAM Micro SD storage
Minnowboard Turbot Quad-Core	\$ 190	99 x 74mm	–	Quad Core Intel Atom	2GB

Clock Speed	Digital Pins	Analogue Pins	Radio	Video	Ethernet/ WiFi	Input Voltage	Operating Voltage	Website
16MHz	11	4	nRF51822	–	–	3.3 - 5V	3.3V	calliope.cc
48MHz	4	4	–	–	–	5V	5V	redfernelectronics.co.uk
16MHz	20	12	Xbee	–	–	7-12V	5V	dfrobot.com
160Mhz	21	16	Bluetooth	–	ESP32	5V	3.3V	esp-idf.readthedocs.io
72Mhz	44	16	–	–	–	3.5 - 16V	3.3V	espruino.com
84MHz	22	9	–	–	–	3.5 - 16V	3.3V	espruino.com
64MHz	17	0	Bluetooth Low Energy	–	–	2.0 - 3.6V	3.3V	espruino.com
100MHz	21	8	–	–	ESP8266 WiFi (802.11 b/g/n)	3.5 - 5V	3.3V	espruino.com
240MHz	2	2	Bluetooth	–	802.11 b/g/n	5V	3V	makeblock.com
8MHz	14	6	–	–	–	2.7 - 5.5V	2.7 - 5.5V	store.arduino.cc
64MHz	20	6	Bluetooth 5	–	802.11 b/g/n	5V	3.3V	store.particle.io
64MHz	20	6	LTE CAT M1/NB1 Bluetooth 5	–	–	5V	3.3V	store.particle.io
120MHz	36	14	u-blox SARA G-series (2G)	–	–	5V	5V	store.particle.io
120MHz	36	14	u-blox SARA G-series (3G)	–	–	5V	5V	store.particle.io
120MHz	18	8	–	–	BCM43362 802.11b/g/n	3.6 - 5.5V	3.3V	store.particle.io
168MHz	24	3	–	–	–	5V	3.3V	store.micropython.org
16MHz	9	1	–	–	ESP8266	3.7 - 6V	3.3V	sparkfun.com
240MHz	28	18	Bluetooth	–	802.11 BGN WiFi	5V	3.3V	sparkfun.com
120MHz	58	27	–	–	–	5V	3.3V / 5V Tolerant	pjrc.com
180MHz	58	25	–	–	–	5V	3.3V	pjrc.com
80/160MHz	11	1	–	–	802.11 BGN WiFi	5 - 24V	3.3V	wemos.cc
240MHz	25	19	Bluetooth Low Energy	–	802.11 BGN WiFi	5V	3.3V	pycom.io
400MHz CPU 16MHz ATmega	20	12	WiFi	–	10/100	5V	5V	store.arduino.cc
1.8GHz	40	0	WiFi, Bluetooth	HDMI	Gigabit	5V	3.3V	asus.com
1.8GHz	40	0	WiFi, Bluetooth	HDMI	Gigabit	5V	3.3V	asus.com
2GHz	40	0	WiFi, Bluetooth	HDMI	Gigabit	5V	3.3V	banana-pi.org
1.2GHz	40	0	Bluetooth 4 WiFi b/g/n	HDMI MIPI DSI	Gigabit	5V	3.3V	banana-pi.org
1GHz	112	7 - 12	WiFi	Micro HDMI	10/100	5V	1.8V and 3.3V	beagleboard.org
1.2GHz	96	0	WiFi, Bluetooth	HDMI	10/100	5V	5V	cubieboard.org
1.8GHz	40	0	WiFi, Bluetooth	HDMI & MIPI-DSI	–	8 - 18V	5V	96boards.org
1.8GHz	20	6	WiFi, Bluetooth	HDMI & MIPI-DSI	10/100	5V	5V	lattepanda.com
2.6GHz	2 x 50 pin headers	Integrated Arduino Leonardo	Bluetooth 4.2 802.11AC WiFi	HDMI, USB C (DP) eDP	Gigabit	12V	5V	lattepanda.com
1.512GHz	40	0	–	HDMI	10/100	5V	3.3V	libre.computer
A72 @ 2.8GHz A53 @ 1.4GHz	60	0	–	HDMI 2 x USB C	Gigabit	USB C 12V	5V	libre.computer
1.2GHz	40	0	–	HDMI	10/100	5V	3.3V	libre.computer
1.91GHz	40	0	–	Micro HDMI	Gigabit	5V	3.3V	minnowboard.org

Board Name	Price	Dimensions	Software	Processor	Flash/RAM
NanoPi-A64	\$29	64 x 60mm	Linux	Quad-core Cortex A53	1GB RAM
NanoPi K1 Plus	\$35	85 x 56mm	Linux	Quad-core ARM Cortex-A53	2GB
Nano Pi NEO Plus 2	\$49	40 x 52mm	Linux	Quad-core Cortex A54	1GB RAM, 6GB eMMC
Nano Pi NEO 4	\$50	60 x 45mm	Linux / Android	Dual Core ARM Cortex-A72 Quad Core ARM Cortex-A53	1GB RAM eMMC Micro SD
NanoPC T3	\$75	100 x 64mm	Linux	Octa-core 64-bit Cortex A53	2GB RAM, 16GB eMMC
NanoPi 2 Fire	\$29	75 x 40mm	Linux, Android	Quad-core Cortex A9	1GB RAM
Next Thing C.H.I.P	\$9	60.50 x 35.56mm	Linux	Allwinner R8	512MB RAM, 4GB FLASH
Next Thing C.H.I.P Pro	\$16	45 x 30mm	Linux	Armv7 GR8	256MB/512MB RAM
Odroid MC1 Solo	\$48	92 x 42 x 29mm	Linux	Quad-core Arm Cortex A15 Quad-core ARM Cortex A7	2GB
Odroid XU4	\$59	85 x 58 x 20mm	Linux, Android	Quad-core Arm Cortex A15 Quad-core ARM Cortex A7	2GB RAM
Onion Omega 2 Plus	\$9	42 x 26mm	Linux	MediaTek MT7689	128MB RAM, 32MB FLASH
Onion Omega Pro	\$49	73 x 44mm	OpenWrt 18.06 Linux, Onion OS	MIPS CPU	512MB RAM 8GB Flash storage
Orange Pi Lite 2	\$9.99	69 x 48mm	Linux, Android	Quad-core ARM Cortex-A53	1GB RAM
Orange Pi One	\$9.99	69 x 48mm	Linux, Android	Quad-core Cortex-A7	512MB
Orange Pi One Plus	\$19.99	68 x 48mm	Linux, Android	Quad-core 64-bit ARM Cortex-A53	1GB RAM
Orange Pi PC 2	\$19.98	85 x 55mm	Linux, Android	Quad-core 64-bit ARM Cortex-A53	1GB RAM
Orange Pi Zero Plus2 (H5)	\$9.99	46 x 48mm	Linux, Android	Quad-core Cortex-A53	512MB RAM, 8GB eMMC
Parallella-16 Embedded Platform	–	90 x 50 x 18 mm	Linux	Dual Core ARM A9 Zynq Z7020	1GB RAM
Qualcomm DragonBoard	\$75	54 x 85 mm	Linux / Android Windows 10 IoT Core	Quad Core ARM Cortex-A53	1GB RAM 8GB eMMC Micro SD
Raspberry Pi 3B	\$37	86.9 x 58.5 x 19.1mm	Linux	Quad-core 64-bit ARMv8 Cortex-A53	1GB RAM
Raspberry Pi 3B +	\$38	86.9 x 58.5 x 19.1mm	Linux	Quad-core 64-bit ARMv8 Cortex-A54	1GB RAM
Raspberry Pi A+	\$39	65.0 x 56.0 x 12mm	Linux	ARM11 ARM1176JZF-S	512MB RAM
Raspberry Pi Compute Module 3	\$30	67.6 x 30mm	Linux	Quad-core 64-bit ARMv8 Cortex-A53	1GB RAM
Raspberry Pi Zero	\$5	65.0 x 31.0 x 11.6mm	Linux	Low Power ARM1176JZ-F	512MB RAM
Raspberry Pi Zero W	\$10	65.0 x 31.0 x 11.6mm	Linux	Low Power ARM1176JZ-F	512MB RAM
ROCK64	\$24.99	85 x 56mm	Linux	Quad-core RK3328 A53	1GB / 2GB / 4GB RAM
RockPro 64	\$59.99	133 x 80 x 19mm	Linux	RK3399 Hexa Core A72/A53	2/4GB RAM eMMC storage
Sony Spresense	–	50 x 20.6mm	Arduino / Linux	Cortex®-M4F x 6 cores	1.5MB SRAM 8MB FLASH
SOPINE 64	\$29	67.9 x 31mm	Linux	Quad-core ARM Cortex A53	2GB, 128MB FLASH
Tinkerforge Red Brick	\$79	40 x 40 x 16mm	Tinkerforge API	Allwinner A10s, Cortex A8	512MB RAM Micro SD storage
Udoo Neo Full	\$64.90	89 x 59mm	Android, Linux	ARM Cortex-A9 Cortex-M4 Core	1GB
Udoo Bolt	\$229	120 x 120mm	Linux, Windows	AMD Ryzen Embedded V1605B	User configurable DDR4 up to 32GB eMMC flash storage
Up Board	\$99	85.6 x 90mm	Linux, Windows	Intel Atom x5-z8350	2GB RAM, 16GB eMMC
Up Core	\$149	56.5 x 66mm	Linux, Windows	Intel Atom x5-z8351	4GB RAM, 64GB eMMC
VoCore 2	\$17	25.6 x 25.6 x 3.0mm	Linux	MT7628AN	128MB RAM, 16MB FLASH

Clock Speed	Digital Pins	Analogue Pins	Radio	Video	Ethernet/ WiFi	Input Voltage	Operating Voltage	Website
1.152GHz	40	0	WiFi	HDMI	Gigabit	5V	3.3V	nanopi.org
1.4GHz	40	0	–	HDMI	Gigabit, WiFi b/g/n	5V	3.3V	friendlyarm.com
1.152GHz	36	0	WiFi, Bluetooth	–	Gigabit	5V	3.3V	nanopi.org
A72 @ 2.8GHz A53 @ 1.4GHz	40	0	WiFi b/g/n Bluetooth 4	HDMI	Gigabit	5V	3.3V	friendlyarm.com
1.4GHz	30	0	WiFi, Bluetooth	HDMI, LVDS, MIPI-DSI	Gigabit	5V	5V	friendlyarm.com
1.4GHz	40	0	–	HDMI	Gigabit	5V	3.3V	nanopi.org
1GHz	80	0	Bluetooth 4.0, WiFi b/g/n	Via add on board	N/A	5V	3.3V	getchip.com
1GHz	27	0	Bluetooth 4.2, WiFi b/g/n	–	N/A	5V	3.3V	getchip.com
A15 2GHz A7 1.4GHz	0	0	–	–	Gigabit	5V	5V	hardkernel.com
A15 2GHz A7 1.4GHz	0	0	Optional WiFi	HDMI	Gigabit	4.8 - 5.2V	5V	hardkernel.com
580MHz	32, more via optional docks	0	WiFi	–	Optional expansion	5V	5V	onion.io
580MHz	30	0	–	–	Via add on board	5V	5V	onion.io
1.2GHz	26	0	WiFi, Bluetooth	HDMI	N/A	5V	3.3V	orangepi.org
1.2GHz	40	0	–	HDMI	10/100	5V	3.3V	orangepi.org
1.8GHz	26	0	–	HDMI	Gigabit	5V	3.3V	orangepi.org
1.3GHz	40	0	–	HDMI	Gigabit	5V	3.3V	orangepi.org
1.3GHz	26	0	WiFi, Bluetooth	HDMI	N/A	5V	3.3V	orangepi.org
1GHz	48	0	–	Optional	Gigabit	5V	5V	parallella.org
1.2GHz	40	Via Expansion	WiFi b/g/n Bluetooth4.1GPS	HDMI	–	6.5 - 18V	5V	qualcomm.com
1.2GHz	40	0	Bluetooth 4.0, WiFi b/g/n	HDMI	10/100	5V	3.3V	raspberrypi.org
1.4GHz	40	0	Bluetooth 4.2, WiFi b/g/n	HDMI	10/100/Giga-bit via USB2.0	5V	3.3V	raspberrypi.org
700MHz	40	0	–	HDMI	N/A	5V	3.3V	raspberrypi.org
1.2GHz	120	0	–	HDMI via DevBoard	N/A	5V	3.3V	raspberrypi.org
1GHz	40	0	–	Mini HDMI	N/A	5V	3.3V	raspberrypi.org
1GHz	40	0	Bluetooth 4.2, WiFi b/g/n	Mini HDMI	N/A	5V	3.3V	raspberrypi.org
1.3GHz	40	0	–	HDMI	Gigabit	5v	3.3V	pine64.org
A72 @ 2.8GHz A53 @ 1.4GHz	40	0	Add on	MiPi DSI HDMI	Gigabit	12v	3.3V	pine64.org
156MHz	26	5	GPS	–	–	5v	5V	developer.sony.com
1152MHz	84	0	WiFi, Bluetooth	HDMI via Dev Board	N/A	5V	3.3V	pine64.org
1GHz	Proprietary connector	Proprietary connector	Via add on	Micro HDMI	Via add on	5v	5V	tinkerforge.com
1GHz	54	6	WiFi, Bluetooth	Micro HDMI, LVDS	10/100	5 - 15V	5V	shop.udoo.org
3.6GHz	Arduino compatible pinout	6	Bluetooth 4 WiFi b/g/n	2 x HDMI 2 x USB C	Gigabit	19v	5V	shop.udoo.org
1.92GHz	40	0	–	HDMI	Gigabit	5V	5V	up-shop.org
1.92GHz	100 (via expansion)	0	–	HDMI	N/A	5V	5V	up-shop.org
580MHz	40	0	WiFi, Bluetooth	–	10/100 via expansion	5V	5V	vocore.io

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