		Price (\$)	Vendor	Processor	Cores	3D GPU	мси	RAM	Storage	LAN	Wireless	HDMI or DP	USB ports	Expansion	OSes
A20-OLinuXino-Lime2		44 to 67	Olimex	Allwinner A20	2x A7 @ 1GHz	Mali-400	no	1GB	Opt. 8GB to 16GB eMMC or 8GB NAND; SATA	GbE	no	yes	3	other	Linux, Android
A20-OLinuXino-Micro		45 to 69	Olimex	Allwinner A20	2x A7 @ 1GHz	Mali-400	no	1GB	opt. 4GB or 16GB NAND or eMMC	Fast	no	yes	3	other	Linux, Android
A33-OLinuXino		33 or 44	Olimex	Allwinner A33	4x A7 @ 1.2GHz	Mali-400	no	1GB	opt. 8GB NAND	no	no	no	1	dual 40-pin	Linux, Android
A64-OLinuXino		40 to 78	Olimex	Allwinner A64	4x A53 @ 1.2GHz	Mali-400 MP2	no	1GB or opt. 2GB	opt. 4GB or 16GB eMMC	GbE	WiFi, BT	yes	1	40-pin custom	Linux
Arduino Yun Rev 2		59	Arduino	Qualcomm Atheros AR9331	1x MIPS @ 400MHz	no	Atmega32U4	64MB	16MB	Fast	WiFi	no	2	Arduino	Linux
Atomic Pi		28	DLI	Intel Atom x5-Z8350	4x @ 1.9GHz	Intel HD 400	no	2GB	16GB eMMC	GbE	WiFi, BT	yes	2	other	Linux, Win10
Avenger96	NEW	130	Arrow	STM32MP157	2x A7 @ 650MHz	Vivante	Cortex-M4	1GB	8GB	GbE	WiFi, BT	yes	3	96Boards Ext.	Linux
Banana Pi BPI-F2S	NEW	58	SinoVoip	SunPlus SP7021	4x A7 @ 1GHz	no	SAM9X60 and 8051	128MB or 512MB	8GB eMMC	2x Fast	no	yes	3	40-pin and FPGA I/O	Linux
Banana Pi BPI-M2 Berry		36	SinoVoip	Allwinner V40	4x A7	Mali-400 MP2	no	1GB	SATA	GbE	WiFi, BT	yes	4	Pi 40	Linux, Android
Banana Pi BPI-M2 Ultra		53	SinoVoip	Allwinner R40	4x A7	Mali-400 MP2	no	2GB	8GB to 64GB eMMC; SATA	GbE	WiFi, BT	yes	4	Pi 40	Linux, Android
Banana Pi BPI-M2 Zero		23	SinoVoip	Allwinner H2+	4x A7 @ 1.2GHz	Mali-400 MP2	no	512MB	no	no	WiFi, BT	yes	1	Pi 40	Linux, Android
Banana Pi BPI-M3		60	SinoVoip	Allwinner A83T	8x A7 @ 2GHz	PowerVR SGX544 MP1	no	2GB	8GB eMMC, SATA	GbE	WiFi, BT	yes	3	Pi 40	Linux, Android
Banana Pi BPI-M4	NEW	38	SinoVolip	Realtek RTD1395	4x A53	Mali-470 MP4	no	1GB	8GB eMMC	Fast	WiFi, BT	yes	5	Pi 40	Linux, Android
Banana Pi BPI-M64		68	SinoVoip	Allwinner A64	4x A53 @ 1.2GHz	Mali-450 MP2	no	2GB	8GB to 64GB eMMC	GbE	WiFi, BT	yes	4	Pi 40	Linux, Android
Banana Pi BPI-P2 Zero/Maker		13 to 34	SinoVoip	Allwinner H2+	4x A7 @ 1.2GHz	Mali-400 MP2	no	512MB	8GB (Zero only)	Fast	WiFi, BT (only on Zero)	yes	2	Pi 40	Linux, Android
Banana Pi BPI-R2		84	SinoVoip	MediaTek MT7623N	4x A7 @ 1.3GHz	Mali-450 MP4	no	2GB	8GB eMMC	4x GbE + WAN	Wifi, BT	yes	3	Pi 40	Linux, Android
Banana Pi BPI-W2		88	SinoVoip	Realtek RTD1296	4x A53 @ 1.5GHz	Mali-T820 MP3	no	2GB	8GB to 64GB eMMC	2x GbE	no	yes	4	Pi 40, 3x M.2	Linux, Android
BeagleBone Al	NEW	118	BeagleBoard.org	TI AM578	2x A15 @ 1.5GHz	PowerVR SGX544	PRU & 2x Cortex-M4	1GB	16GB eMMC	GbE	WiFi, BT	yes	2	Bbone	Linux
BeagleBone Black		62	BeagleBoard.org	TI Sitara AM3358	1x A8 @ 1GHz	PowerVR SGX530	PRU	512MB	4GB eMMC	Fast	no	yes	2	Bbone	Linux, Android
BeagleBone Black Wireless		71	BeagleBoard.org; Octavo	TI Sitara AM3358	1x A8 @ 1GHz	SGX530	PRU	512MB	4GB eMMC	no	WiFi, BT	yes	2	Bbone	Linux, Android
BeagleBone Blue		74	BeagleBoard.org	TI Sitara AM3358	1x A8 @ 1GHz	PowerVR SGX530	PRU	512MB	4GB eMMC	no	WiFi, BT, GPS, DSM	no	2	Bbone	Linux
BeagleBone Green		44	SeeedStudio	TI Sitara AM3358	1x A8 @ 1GHz	PowerVR SGX530	PRU	512MB	4GB eMMC	Fast	no	no	2	Bbone, Grove	Linux, Android
BeagleBone Green Wireless		53	SeeedStudio	TI Sitara AM3358	1x A8 @ 1GHz	PowerVR SGX530	PRU	512MB	4GB eMMC	Fast	WiFi, BT	no	5	Bbone, Grove	Linux, Android
C-Sky Dev Board		6	Hangzhou C-SKY	Nationalchip GX6605S CK610M	1x C-SKY @ 574MHz	no	no	64MB	no	no	no	yes	4	no	Linux

<u>Chameleon96</u>		136	Novtech, Arrow	Intel Cyclone V SE SoC	2x A9 + FPGA	Intel Video Suite for FPGA	no	512MB	no	no	WiFi, BT	yes	3	96Boards	Linux
Coral Dev Board		150	Google	NXP i.MX8M with Edge TPU	4x -A53 @ 1.5GHz	Vivante GC7000Lite/GC7000VL	Cortex-M4	1GB	8GB eMMC	GbE	WiFi, BT	yes	4	Pi 40	Linux
CubieAIO-S700		139	Cubieboard.org	Actions S700	4x A53	Mali-450 MP4	no	2GB	8GB eMMC, SATA	GbE	WiFi, BT	yes	7	other	Linux, Android
Cubieboard4		117	Cubieboard.org	Allwinner A80	4x A15 @ 2GHz + 4x A7 @ 1.3GHz	PowerVR G6230	no	2GB	8GB eMMC	GbE	WiFi, BT	yes	5	other	Linux, Android
Cubieboard5		119	Cubieboard.org	Allwinner H8	8x A7 @ 2GHz	PowerVR SGX544MP1	no	2GB	SATA	GbE	WiFi, BT	yes	3	other	Linux, Android
CubieBoard6 / A427		89 or 99	Cubieboard.org	Actions S500 / Actions S700	4x A9 / 4x A53	PowerVR SGX544 / Mali-450 MP4	no	2GB	8GB eMMC, SATA	Fast	WiFi, BT	yes	3	other	Linux, Android
DE0-Nano-SoC Dev Kit		99	Terasic, RocketBoards.org	Cyclone V SE	2x A9 @ 952MHz + FPGA	no	no	1GB	no	GbE	no	no	2	Arduino	Linux
Developer Board 4IoT	NEW	55	Geniatech	Qualcomm Snapdragon 410E	4x A53 @ 1.2GHz	Adreno 306	no	1GB or 2GB	8GB or 16GB eMMC	no	WiFi, BT, GPS	no	1	96Boards IE	Linux, Android, Win 10 IoT
DragonBoard 410c		75	Arrow, Qualcomm	Qualcomm Snapdragon 410	4x A53 @ 1.2GHz	Adreno 306	no	1GB	8GB eMMC	no	WiFi, BT	yes	3	86Boards	Linux, Android
Edge TPU Developer Board		129	Bitmain	Sophon BM1880	2x A53 @ 1.5GHz plus BM1880 TCU	no	750MHz RISC-V	1GB	8GB eMMC	GbE	WiFi, BT	no	4	96Boards	Linux
Firefly-RK3128 / PX3-SE		60	Firefly	Rockchip RK3128 or PX3-SE	4x A7 @ 1.3GHz	Mali-400 MP2	no	1GB	8GB NAND or eMMC	GbE	WiFi, BT	yes	5	other	Linux, Android
Firefly-RK3288		119 or 189	Firefly	Rockchip RK3288	4x A17 @ 1.8GHz	Mali-T760	no	2GB (4GB on Plus)	16GB to 32GB eMMC (32GB on Plus)	GbE	WiFi, BT	yes	3	other	Linux, Android
Firefly-RK3399		149 or 209	Firefly	Rockchip RK3399	2x A72 @ 2GHz, 4x A53 @ 1.43GHz	Mali-T860	no	2GB to 4GB	16GB to 128GB eMMC	GbE	WiFi, BT	yes	4	other	Linux, Android
Giant Board	NEW	50	Groboards	Microchip SAMA5D27	1x A5 @ 500MHz	no	no	128MB	no	opt.	opt. WiFi	no	1	Feather	Linux
Habanero DVK	NEW	119	8devices	Qualcomm IPQ4019	4x A7 @ 717MHz	no	no	512MB	opt. NAND and eMMC	5x Fast	WiFi	no	2	other	Linux
HummingBoard CBi		189 or 255	SolidRun	NXP i.MX6	2x or 4x A9 @ up to 1.2 GHz	Vivante GC355	no	1GB or 2GB	8GB eMMC, M2	GbE	WiFi/BT, GPS	no	4	Mini-PCIe, M. 2	Linux, Android
HummingBoard Edge		112 to 262	SolidRun	NXP i.MX6	1x/2x/4x A9 @ up to 1.2 GHz	Vivante GC355	no	512MB to 2GB	8GB eMMC, mSATA, M.2	GbE	opt.	yes	4	Mini-PCIe	Linux, Android
HummingBoard Gate		97 to 242	SolidRun	NXP i.MX6	1x/2x/4x A9 @ up to 1.2 GHz	Vivante GC355	no	512MB to 4GB	8GB eMMC	GbE	opt.	yes	4	Mini-PCle, MikroBus	Linux, Android
HummingBoard Pro		97 to 177	SolidRun	NXP i.MX6	1x/2x/4x A9 @ up to 1.2 GHz	Vivante GC355	no	512MB to 2GB	8GB eMMC; mSATA	GbE	opt.	yes	2	Mini-PCIe	Linux, Android
HummingBoard Pulse / Pulse Mini	NEW	182 to 276	SolidRun	NXP i.MX8M Dual or Quad	2x/4x -A53 at up to 1.5GHz	Vivante GC7000 Lite	Cortex-M4	2GB to 4GB	8GB eMMC; M.2	2x GbE	opt.	yes	3	Mini-PCIe, M. 2	Linux
Jalapeno DVK		99	8devices	Qualcomm IPQ4018	4x A7 @ 700MHz	no	no	256MB	no	2x GbE	WiFi	no	3	other	Linux
Khadas Edge/Edge-V		100 to 230	Khadas	Rockchip RK3399	2x A72 @ 2GHz, 4x A53 @ 1.5GHz	Mali-T860	yes	2GB or 4GB	16GB to 128GB eMMC	GbE (Edge-V)	WiFi, BT	yes	4	MXM with FPC or Pi 40 with M.2 (Edge-V)	Linux, Android
Khadas Vim1		45 or 55	Khadas	Amlogic S905X	4x A53	Mali-450 MP	no	2GB	8GB or 16GB eMMC	Fast	WiFi, BT	yes	3	40-pin custom	Linux, Android
Khadas Vim2		80 to 120	Khadas	Amlogic S912	8x A53 @ 1.5GHz	Mali-T820 MP3	yes	3GB	32GB	GbE	WiFi,BT	yes	3	40-pin custom	Linux, Android
Khadas Vim3 / Vim3L	NEW	50 (3L) or 100 to 140	Khadas	Amlogic AM311D	4x -A73 @ 2.2GHz, 2x - A53 @ 1.8GHz	Mali-G52	yes	2GB or 4GB	16GB or 32GB	GbE	WiFi, BT	yes	3	40-pin custom, M.2, PCIe	Linux, Android
Komikan DVK		59	8devices	Realtek RTL819FS	1x MIPS @ 1GHz	none	no	129MB	empty eMMC socket	Fast and GbE	WiFi, BT	no	3	other	Linux

LeMaker Guitar		69	LeMaker	Actions S500	4x A9 @ 1.6GHz	PowerVR SGX544	no	1GB or 2GB	8GB eMMC	Fast	WiFi, BT	yes	3	Pi 40	Linux, Android
Libre Computer Board ALL-H3-CC (Tritium)		15 to 30	Libre Computer	Allwinner H2+, H3, or H5	4x A7 or A53	Mali-400 MP2 or Mali 450 MP4	no	512MB, 1GB, or 2GB	no	Fast	no	yes	5	Pi 40	Linux, Android
<u>Libre Computer Board AML-S805X-AC (La Frite)</u>		20 or 25	Libre Computer	Amlogic S805X	4x A53 @ 1.2GHz	Mali-450	no	512MB or 1GB	empty eMMC socket	Fast	no	yes	3	Pi 40	Linux, Android
Libre Computer Board AML- S905X-CC (Le Potato)		35 or 45	Libre Computer	Amlogic S905X	4x A53	Mali-450 MP2	no	1GB or 2GB	opt. 8GB to 64GB eMMC	Fast	no	yes	5	Pi 40	Linux, Android
Lindenis V5		86 to 202	Lindenis Tech	Allwinner V5 V100	4x A7 @ 1.5GHz	no	no	1GB	no	GbE	oipt. WiFi, BT	yes	5	Pi 40	Linux
LinkIt Smart 7688		15 or 18	SeeedStudio, MediaTek	MediaTek MT7688AN	1x MIPS @ 580MHz	no	opt. ATmega32U4	128MB	32MB	no	WiFi	no	2	opt. Arduino and Grove	OpenWrt
LinkSprite Acadia V3		119	LinkSprite	NXP i.MX6 Quad	4x A9 @ 1.2GHz	Vivante GC355	no	1GB	SATA	GbE	no	yes	3	Arduino	Linux, Android
LinkSprite Arches		95	LinkSprite	Allwinner A80	4x A15 @ 2GHz + 4x A7 @ 1.3GHz	PowerVR G6230	no	2GB	8GB eMMC	GbE	WiFi, BT	yes	3	other	Linux, Android
MaaxBoard	NEW	76	Embest (Avnet)	NXP i.MX8M	4x A53 @ 1.4GHz	Vivante GC7000Lite	Cortex-M4	2GB	opt. up to 16GB eMMC	GbE	WiFi, BT	yes	3	Pi 40	Linux, Android
MYS-6ULX SBC		29 or 30	MYIR	NXP i.MX6 ULL or i.MX6 UL	1x Cortex-A7 @ 528MHz or 696MHz,	no	no	256MB	256MB NAMD	Fast	WiFi	no	2	other	Linux
Nano PC-T3 Plus		70	FriendlylElec	Samsung S5P6818	8x A53 @ 1.4GHz	Mali-400 MP	no	2GB	16GB eMMC	GbE	WiFi, BT	yes	4	other	Linux, Android
NanoPC-T4		110	FriendlylElec	Rockchip RK3399	2x A72 @ 2GHz, 4x A53 @ 1.5GHz	Mali-T864	no	4GB	16GB eMMC	GbE	WiFi, BT	yes	4	M.2, Pi 40	Linux, Android
NanoPi Duo2		20	FriendlylElec	Allwinner H3	4x A7 @ 1.2GHz	Mali-400 MP2	no	512MB	no	no	WiFi, BT	no	1	other	Linux
NanoPi K1 Plus		35	FriendlylElec	Allwinner H5	4x A53 @ 1.4GHz	Mali-450	no	2GB	opt. eMMC	GbE	WiFi	yes	4	Pi 40	Linux
NanoPi M1 Plus		38	FriendlylElec	Allwinner H3	4x A7 @ 1.2GHz	Mali-400 MP2	no	1GB	8GB eMMC	GbE	WiFi, BT	yes	3	Pi 40	Linux, Android
NanoPi M4 / M4V2	NEW	50 or 70	FriendlylElec	Rockchip RK3399	2x A72 @ 2GHz, 4x A53 @ 1.5GHz	Mali-T864	no	2GB or 4GB	opt. eMMC	GbE	WiFi, BT	yes	5	Pi 40 and other	Linux, Android
Nano Pi Fire3-LTS		30	FriendlylElec	Samsung S5P6818	8x A53 @ 1.4GHz	"3D GPU"	no	1GB	no	GbE	no	yes	2	Pi 40	Linux, Android
NanoPi Neo-LTS		10 or 15	FriendlylElec	Allwinner H3	4x A7 @ 1.2GHz	Mali-400	no	256MB or 512MB	no	Fast	no	no	2	other	Linux
NanoPi Neo2-LTS / Neo2 Black	NEW	20	FriendlylElec	Allwinner H5	4x A53 @ 1.2GHz	Mali-450	no	512MB	no	GbE	no	no	2	other	Linux
NanoPi Neo4		50	FriendlylElec	Rockchip RK3399	2x A72 @ 2GHz, 4x A53 @ 1.5GHz	Mali-T628	no	1GB	opt. eMMC	GbE	WiFi, BT	yes	3	Pi 40	Linux, Android
NanoPi Neo Air-LTS		20	FriendlylElec	Allwinner H3	4x A7 @ 1.2GHz	Mali-400 MP2	no	512MB	8GB eMMC	no	WiFi, BT	no	1	other	Linux
NanoPi Neo Plus2 V2.0	NEW	29	FriendlylElec	Allwinner H5	4x A53 @ 1.5GHz	Mali-450 MP2	no	1GB	8GB eMMC	GbE	WiFi, BT	no	2	other	Linux
NanoPi R1 / R1S-H3 / R1S-H5	NEW	20 to 39	FriendlylElec	Allwinner H3 or H5	4x A7 or A53 @ 1.2GHz	Mali-400 or -450 MP2	no	512MB or 1GB (R1 option)	8GB eMMC on R1 1GB model	2x GbE or GbE & Fast (R1)	WiFi	no	2 or 3	no	Linux
Nitrogen8M_Mini		135 to 175	Boundary Devices	NXP i.MX8M Mini	4x A53 @ 2.0GHz	GCNanoUltra	Cortex-M4	2GB	16GB	GbE	opt. WiFi, BT	no	2	PCle	Linux, Android
Odroid-C0		30	Hardkernel	Amlogic S805	4x A5 @ 1.5GHz	Mali-450	no	1GB	opt. EMMC	no	no	yes	5	Pi 40	Linux, Android
Odroid-C1+		35	Hardkernel	Amlogic S805	4x A5 @ 1.5GHz	Mali-450	no	1GB	Opt. EMMC	GbE	no	yes	5	Pi 40	Linux, Android

Odroid-C2		46	Hardkernel	Amlogic S905	4x A53 @ 1.5GHz	Mali-450 MP2	no	2GB	Opt. EMMC	GbE	no	yes	5	Pi 40	Linux, Android
Odroid-H2		176	Hardkernel	Intel Celeron J4195	4x Gemini Lake @ 2.3GHz	Intel UHD Graphics 600	no	4GB and up	8GB eMMC and up; M.2, SATA	2x GbE	no	yes	4	M.2, other	Linux
Odroid-N2		60 or 70	Hardkernel	Amlogic S922X	4x -A73 @ 1.8GHz, 2x - A53 @ 1.9GHz	Mali-G52	no	2GB or 4GB	empty eMMC socket	GbE	opt.	yes	5	Pi 40	Linux, Android
Odroid-XU4 / -XU4Q		49	Hardkernel	Samsung Exynos5422	4x A15 @ 2GHz + 4x A7 @1.4GHz	Mali-T628 MP6	no	2GB	opt. SATA	GbE	opt.	yes	3	other	Linux, Android
Omega2 Dash	NEW	69	Onion	MediaTek MT7688	1x MIPS @ 580MHz	no	no	128MB	no	opt. Fast	WiFi	no	2	other	Linux
Omega2 LTE	NEW	99	Onion	MediaTek MT7688	1x MIPS @ 580MHz	no	no	128MB	no	opt. Fast	WiFi, LTE, GNSS	no	1	other	Linux
Omega2 Pro		49	Onion	MediaTek MT7688AN	1x MIPS @ 580MHz	no	no	512MB	8GB flash	opt.	WiFi	no	2	other	Linux
Orange Pi 2G-IOT		10	Shenzhen Xunlong	RDA RDA8810PL	1x A5	Vivante GC860	no	256MB	500MB NAND	no	WiFi, BT	no	2	Pi 40	Linux, Android
Orange Pi 3		30 to 40	Shenzhen Xunlong	Allwinner H6	4x A53 @ 1.8GHz	Mali-T720 MP2	no	1GB or 2GB	0 or 8GB	GbE	WiFi, BT	yes	6	Pi 26	Linux, Android
Orange Pi 3G-IOT		20 or 25	Shenzhen Xunlong	MediaTek MT6572	2x A7 @ 1.2GHz	Mali-400 MP1	no	256MB or 512MB	512MB or 4GB eMMC	no	WiFi, BT, 3G, GPS, FM	no	2	Pi 40	Android
Orange Pi 4	NEW	50 to 70	Shenzhen Xunlong	Rockchip RK3399	2x A72 @ 2GHz, 4x A53 @ 1.5GHz	Mali-T860	no	4GB and up	opt. 16GB eMMC	GbE	WiFi, BT	yes	4	Pi 40, PCle	Linux, Android
Orange Pi 4G-IOT		45	Shenzhen Xunlong	MediaTek MT6737	4x A53	Mali-T720 MP1 GPU	no	1GB	8GB eMMC	no	WiFi, BT, 4G	yes	4	Pi 40	Android
Orange Pi i96		9	Shenzhen Xunlong	RDA RDA8810PL	1x A5	Vivante GC860	no	256MB	500MB NAND	no	WiFi, BT	no	2	40-pin custom	Linux, Android
Orange Pi Lite / Lite2		12 or 25	Shenzhen Xunlong	Allwinner H3 or H6 (Lite2	4x A7 @ 1.2GHz or 4x - A53	Mali-400 MP2 or Mali- T720 MP2	no	512MB or 1GB	no	no	WiFi (also BT on Lite2)	yes	3	Pi 40 or 26 (Lite2)	Linux, Android
Orange Pi One Plus		20	Shenzhen Xunlong	Allwinner H6	4x A53	Mali-T720 MP2	no	1GB	no	GbE	no	yes	2	Pi 26	Linux, Android
Orange Pi PC / PC Plus		15 or 24	Shenzhen Xunlong	Allwinner H3	4x A7 @ 1.6GHz	Mali-400 MP2	no	1GB	8GB eMMC (PC Plus only)	Fast	no	yes	4	Pi 40	Linux, Android
Orange Pi PC 2		20	Shenzhen Xunlong	Allwinner H5	4x A53	Mali-450 MP2	no	1GB	no	GbE	no	yes	4	Pi 40	Linux, Android
Orange Pi Plus 2E		42	Shenzhen Xunlong	Allwinner H3	4x A7 @ 1.6GHz)	Mali-400 MP2	no	2GB	8GB eMMC	GbE	WiFi	yes	4	Pi 40	Linux, Android
Orange Pi R1		14	Shenzhen Xunlong	Allwinner H2+	4x A7 @ 1.2GHz	Mali-400 MP2	no	256MB	no	2x Fast	WiFi	no	1	Pi 26	Linux, Android
Orange Pi RK3399		89	Shenzhen Xunlong	Rockchip RK3399	2x A72 @ 2GHz, 4x A53 @ 1.5GHz	Mali-T628	no	2GB	16GB eMMC; mSATA sockets	GbE	WiFi, BT	yes	5	Pi 40, mini- PCle	Linux, Android
Orange Pi Zero H2+, Zero Plus2 H3, Zero Plus2 H5		9, 23, 24	Shenzhen Xunlong	Alwinner H2+, H3 or H5	4x A7 (H2+/H3) or 4x A53	Mali-400 MP2 or Mali- 450 MP2	no	256MB/512M B (H2+) or 512MB	8GB eMMC (H3/H5)	Fast (H2+ only)	WiFi (BT on H3/H5 only)	yes (H3/H5 only)	1 (H3/H5) or 2 (H2+)	Pi 26	Linux, Android
Pepper 43R / 43C		169	Gumstix	TI AM3354	1x A8 @ 800MHz	PowerVR SGX530	no	512MB	no	GbE	WiFi, BT	no	4	Other	Linux, Android
Pepper DVI-D		119	Gumstix	TI AM3354	1x A8 @ 800MHz	PowerVR SGX530	no	512MB	no	GbE	no	yes	4	Other	Linux, Android
Pine A64+ / A64-LTS		15 to 32	Pine64	Allwinner A64	4x A53 @ 1.2GHz	Mali-400 MP2	no	512MB to 2GB	opt. eMMC on A64-LTS	Fast or GbE	no	yes	3	Pi 40	Linux, Android
Pine H64 Model B		36 or 45	Pine64	Allwinner H6	4x A53	Mali-T720	no	2GB or 3GB	opt.	GbE	WiFi, BT	yes	2	Pi 40	Linux, Android

<u>PocketBeagle</u>		23	BeagleBoard.org	TI Sitara AM3358	1x A8 @ 1GHz	PowerVR SGX530	PRU	512MB	no	no	no	no	1	other	Linux
Raspberry Pi Zero		5 to 25	Rpi Trading	Broadcom BCM2835	1x A8 @ 1GHz	VideoCore IV	no	512MB	no	no	no	yes	2	Pi 40	Linux
Raspberry Pi Zero W / Zero WH		10 to 25	Rpi Trading	Broadcom BCM2835	1x A8 @ 1GHz	VideoCore IV	no	512MB	no	no	WiFi, BT	yes	2	Pi 40	Linux
Raspberry Pi 3 Model A+		25	Rpi Trading	Broadcom BCM2837B0	4x A53 @ 1.4GHz	VideoCore IV	no	512MB	no	no	WiFi, BT	yes	2	Pi 40	Linux
Raspberry Pi 3 Model B		35	Rpi Trading	Broadcom BCM42837	4x A53 @ 1.2GHz	VideoCore IV	no	1GB	no	Fast	WiFi, BT	yes	5	Pi 40	Linux
Raspberry Pi 3 Model B+		35	Rpi Trading	Broadcom BCM2837B0	4x A53 @ 1.4GHz	VideoCore IV	no	1GB	no	GbE	WiFi/BT	yes	5	Pi 40	Linux
Raspberry Pi 4 Model B	NEW	35 to 55	Rpi Trading	Broadcom BCM2711	4x A72 @ 1.5GHz	VideoCore VI	no	1GB to 4GB	no	GbE	WiFi/BT	yes	4	Pi 40	Linux, Win 10 IoT
ReSpeaker Core v.2.0		99	Seeed	Rockchip RK3229	4x A7 @ 1.5GHz	Mali-400MP	no	1GB	4GB eMMC	Fast	WiFi, BT	yes	4	Grove	Linux
Rico Board		99	MYIR	TI AM437x	1x A9 @ 1GHz	PowerVR SGX530	no	512MB (or 256MB or 1GB)	4GB eMMC	GbE	no	yes	2	other	Linux
ROC-RK3308-CC	NEW	40	Firefly	Rockchip RK3308	4x -A35 @ 1.3GHz	no	yes	128MB to 512MB	128MB to 256MB NAND; 4GB to 128GB eMMC	Fast	WiFi, BT	no	2	Pi 40	Linux
ROC-RK3328-CC (Renegade)		35 to 80	Firefly, Libre	Rockchip RK3328	4x A53	Mali-400 MP2	no	1GB, 2GB, 4GB	opt. eMMC	GbE	no	yes	4	Pi 40	Linux, Android
ROC-RK3399-PC (Renegade Elite)		89	Firefly, Libre	Rockchip RK3399	2x A72 @ 2GHz, 4x A53 @ 1.5GHz	Mali-T864	no	4GB	opt. eMMC to 128GB	GbE w/PoE	no	yes	5	other	Linux, Android
Rock64		25 to 45	Pine64	Rockchip RK3328	4x A53 @ 1.5GHz	Mali-450 MP2	no	1GB to 4GB	empty eMMC	GbE	no	yes	3	Pi 40	Linux, Android
Rock Pi 4	NEW	39 to 75	Radxa	Rockchip RK3399	2x A72 @ 1.8GHz, 4x A53 @ 1.4GHz	Mali-T864	no	1GB, 2GB, 4GB	empty eMMC	GbE	opt. WiFi/BT	yes	5	Pi 40, M.2	Linux, Android
Rock Pi N10	NEW	99 to 169	Radxa, Vamrs	Rockchip RK3399Pro	2x A72 @ 2GHz, 4x A53 @ 1.5GHz	Mali-T860	no	4GB, 6GB, or 8GB	16GB, 32GB, or 64GB	GbE	opt. WiFi. BT	yes	5	Pi 40, M.2	Linux, Android
Rock Pi S	NEW	10 to 24	Radxa	Rockchip RK3308	4x A35 @ 1.3GHz	no	no	256MB or 512MB	opt. 1GB NAND	Fast	opt. WiFi, BT	no	2	other	Linux
RockPro64		60 or 80	Pine64	Rockchip RK3399	2x A72 @ 1.8GHz, 4x A53 @ 1.4GHz	Mali-T864	no	2GB or 4GB	empty eMMC	GbE	opt. WiFi/BT	yes	4	PCle x4, Pi 40	Linux, Android
Rock960 Model B		139	Vamrs	Rockchip RK3399	2x A72 @ 1.8GHz, 4x A53 @ 1.43GHz	Mali-T864	no	4GB	32GB eMMC; opt. M.2	no	WiFi, BT	yes	3	96Boards; opt. M.2	Linux, Android
Rock960 Model C		69 or 79	Vamrs	Rockchip RK3399	2x A72 @ 1.8GHz, 4x A53 @ 1.43GHz	Mali-T864	no	1GB or 2GB	empty eMMC; opt. M.2	no	WiFi, BT	yes	3	96Boards; opt. M.2	Linux, Android
Seeeduino Cloud		50	SeeedStudio	Qualcomm AR9331	1x MIPS @ 400MHz	no	ATmega32u4	64MB	64MB NAND	Fast	WiFi	no	2	Arduino, Grove	Linux
SOM-RK3399 Dev Kit	NEW	120	FriendlyElec	Rockchip RK3399	2x A72 @ 1.8GHz; 4x A53 @ 1.4GHz	Mali-T864	no	2GB	16GB eMMC	GbE	WiFi, BT	yes	6	M.2, mini- PCle	Linux, Android
STM32MP157A-DK1 / DK2	NEW	69 or 99	ST	STM32MP1	2x A7 @ 650MHz	no	Cortex-M4	4GB	no	GbE	opt. WiFi/.BT (DK2)	yes	2	Pi 40, Arduino	Linux
Tinker Board S		90	Asus	Rockchip RK3288	4x A17 @ 1.8GHz	Mali-T760 GPU	no	2GB	16GB eMMC	GbE	WiFi, BT	yes	5	Pi 40	Linux
VMARC RK3399Pro SoM Ficus2	NEW	199 to 249	Vamrs	Rockchip RK3399Pro	2x A72 @ 1.8GHz; 4x A53 @ 1.4GHz	Mali-T860	no	4GB, 6GB, 8GB	16GB, 32GB, 64GB	GbE and Fast	WiFi, BT	yes	1	96Boards EE, PCIe, mini- PCIe	Linux, Android
Udoo Neo		50 to 65	Udoo (Seco)	NXP i.MX6 SoloX	1x A9 @ 1GHz)	Vivante GC355	Cortex-M4	512MB or 1GB	no	Fast	opt.	yes	2	Arduino	Linux, Android
Udoo Quad/Dual/Dual Basic		99 to 135	Udoo (Seco)	NXP i.MX6 Dual/Quad	2x/4x A9 @ 1GHz	Vivante GC355	SAM3X8E (- M3)	1GB	opt. SATA (Quad)	opt.	opt.	yes	4	Arduino	Linux, Android

Udoo X86		174 or 267	Udoo (Seco)	Celeron N3160	4x Braswell @ 2.24GHz	Intel Gen 8-LP GPU	Intel Curie (Quark SE)	4GB	32GB eMMC; SATA 3; M.2	GbE	WiFi, BT	yes	3	Arduino, other	Linux, Android
UP board		99 to 169	Aaeon	Intel Atom x5-Z8350	4x Cherry Trail @ 1.44 GHz/1.92GHz	Intel HD 400	no	1GB to 4GB	16GB to 64GB eMMC	GbE	no	yes	5	Pi 40	Linux, Android
UP Core		99 to 169	Aaeon	Intel Atom x5-Z8350	4x Cherry Trail @ 1.44 GHz/1.92GHz	Intel HD 400	no	1GB to 4GB	16GB to 64GB eMMC	no	WiFi, BT	yes	1	Pi 40	Linux, Android
Up Core Plus		149 to 329	Aaeon	Intel Atom x5- E3930/E3940, x7-E3950	4x Apollo Lake @ 1.3GHz to 2.0GHz	Intel HD Graphics 500/505	no	2GB to 8GB	32GB to 128GB eMMC, SATA	opt.	WiFi, BT	yes	4	other	Linux, Android
UP Squared		149 to 339	Aaeon	Intel Celeron N3350	2x Apollo Lake @ 1.1 GHz/2.4GHz	Intel Gen9 HD 500/505	no	2GB or 8GB	32GB to 128GB eMMC, SATA	2x GbE	no	yes	4	other	Linux, Android
Wandboard		89 to 149	Wandboard.org	NXP i.MX6	1x, 2x, or 4x A9 @1GHz	Vivante GC355	no	512MB to 2GB	opt. SATA (Quad)	GbE	opt.	yes	2	other	Linux, Android
<u>ZeroPi</u>	NEW	10	FriendlylElec	Allwinner H3	4x A7 @ 1.2GHz	Mali-400 MP2	no	512MB	no	GbE	opt.	no	2	no	Linux
Z-turn Board		99 to 119	MYIR	Xilinx Zynq-7010/7020	2x ARM @ 667MHz + FPGA	no	no	1GB	no	GbE	no	yes	2	other	Linux
Z-turn Lite		69 or 75	MYIR	Xilinx Zynq-7007S/7010	2x ARM @ 667MHz + FPGA	no	no	512MB	4GB eMMC	GbE	no	no	1	other	Linux
NOTES		•			•	•	•	•	•					•	
Price:		Based on lower retail outlets.	st prices found at publication	n date, rounded to US dolla	ar, with ranges indicating diffe	erent models or different pr	ocessor and me	emory configura	tions, but not other	options. The	e ranges are	e based only	the lowe	st price site, no	t a range of
Vendor:		Primary vendor	and, if promoted by vendor	, a separate manufacturer.	. May not include all entities i	nvolved, or necessarily na	me of sponsore	d open source p	roject/website.						
Processor/Cores:		Clock rates ma	y be max. limits. References	s to A7, A9, A53 (64-bit) et	c. refer to Arm Cortex SoCs.										
3D GPU:		Only listed if GI	PU has 3D acceleration.												
MCU:		Only listed if us	er-accessible; may not inclu	ide minor MCU coprocesso	ors.										
RAM:		First figure is de	efault configuration matched	I with price.											
Storage:		This column on	ly shows on-board storage.	It does not include microS	D slot, which is available on	all the SBCs.									
LAN:			net; "Fast" = 10/100Mbps; "												
Wireless:		Lists only WiFi	and Bluetooth, although son	ne have others (see brief of	descriptions in our survey arti	cles).									
HDMI or DP-out:		Refers to real-v	vorld, coastline DDI, HDMI a	and/or DisplayPort; others	may also be present (e.g. L\	/DS, RGB, MIPI-DSI, VGA).								
USB ports:		Refers to coast	line, real-world ports only. Ir	ncludes micro- and mini-US	SB, including power-only mod	dels, but does not include of	onboard USB int	terfaces							
Expansion:		Lists support fo differentiated fr	or major expansion interfaces om "headers," referring to in	s such as mini-PCIe, Ardui dividual interfaces.	ino, Pi 40 (40-pin Raspberry	Pi expansion), BeagleBon	e (BBone, dual s	50x), 96Boards.	org (40- and 60-pin), Grove, or	MikroBus;	other" refer	s to a cus	tom expansion	interface,
OSes:		Linux-based O	Ses preloaded on device, av	vailable for download, or av	vailable from linked 3rd party	site; Linux means any full	featured Linux (Ubuntu, Fedora	, Yocto Project, De	bian, Open\	Wrt etc.);				
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