

# ROCK 4 vs. Raspberry Pi 4 COMPARISON TABLE



	4SE	4C+	Raspberry Pi 4 model B
SoC	Rockchip RK3399-T	Rockchip RK3399-T	Broadcom BCM2711B0
Processor	Hexa-core Arm® big.LITTLE™ technology (Dual Cortex®-A72, Quad Cortex®-A53)	Hexa-core Arm® big.LITTLE™ technology (Dual Cortex®-A72, Quad Cortex®-A53)	Quad core ARM Cortex-A72 (ARM V8) (64-bit)
Clock	1.5GHz // 1.0GHz	1.5GHz // 1.4GHz	1.5GHz
GPU	Arm Mali™ T860MP4	Arm Mali™ T860MP4	VideoCore VI (500MHz)
Memory	Up to 4GB 64bit LRDDR4 RAM	Up to 4GB 64bit LRDDR4 RAM	Up to 8GB LPDDR4 RAM
Power	USB Type-C™ PD	USB Type-C™ / GPIO	USB Type-C™
HDMI	1x HDMI up to 4K@60fps	2x HDMI up to 4K@60fps	2x HDMI up to 4K@60fps
USB	1x USB3 HOST / 1x USB3 OTG-HOST / 2x USB2 HOST	1x USB3 HOST / 1x USB3 OTG-HOST / 2x USB2 HOST	2 USB 3.0 PORTS / 2 USB 2.0 PORTS.
Audio Ports	3.5mm jack - stereo output/mic input	3.5mm jack - stereo output/mic input	3.5mm jack - stereo output/mic input
Connectivity	WiFi® 5 / Bluetooth® 5.0	WiFi® 5 / Bluetooth® 5.0	2.4 GHz and 5.0 GHz WiFi / Bluetooth® 5.0
MIPI	1x 2 lane DSI / 1x 2 lane CSI	1x 4 lane DSI / 1x 2 lane CSI	2 lane MIPI DSI / 2 lane MIPI CSI
Storage	Micro SD / eMMC	Micro SD / eMMC	Micro SD
UARTS	2x UART	2x UART	1x UART
External Antenna	✗	✓	✗
RTC	✓	✗	✗
Power On/Off	✗	✓	✗
Software	ARMv8 Instruction Set / Debian/Ubuntu Linux / Android 11 / GPU enabled AI stack, (e.g. Caffè) / Hardware access/control library for Linux/Android	ARMv8 Instruction Set / Arm Neon™ Advanced SIMD / Armv8 cryptography extensions / TrustZone® technology support / Debian/Ubuntu Linux / Android 11 / GPU enabled AI stack, (e.g. Caffè) / Hardware access/control library for Linux/Android	Raspberry Pi OS / Ubuntu / Manjaro / LibreELEC / Lakka
Operation Temperature	0~50 °C	0~50 °C	0~60 °C
RS SKU & Pack Size	1 unit: 220-9536 100 units: 251-3632	1 unit: 249-3158 100 units: 250-2784	



# ROCK 3 vs. Raspberry Pi 4 COMPARISON TABLE



	3A	3C	Raspberry Pi 4 model B
SoC	Rockchip RK3568	Rockchip RK3566-T	Broadcom BCM2711B0
Processor	Quad-core Arm® Cortex®-A55 (ARMv8)	Quad-core Arm® Cortex®-A55 (ARMv8)	Quad core ARM Cortex-A72 (ARM V8) (64-bit)
Clock	2.0GHz	2.0GHz	1.5GHz
GPU	Arm Mali™ G52	Arm Mali™ G52-2EE	VideoCore VI (500MHz)
Memory	Up to 2GB 64bit LRDDR4 RAM	Up to 2GB 32bit LRDDR4 RAM	Up to 8GB LPDDR4 RAM
Power	USB Type-C™ PD / Qualcomm® Quick Charge™ / GPIO	USB Type-C™ / GPIO	USB Type-C™
HDMI	1x HDMI up to 4K@60fps	1x HDMI up to 4K@60fps	2x HDMI up to 4K@60fps
USB	2x USB2 HOST / 1x USB3 HOST / 1 x USB 3.0 OTG-HOST	2x USB2 HOST / 1x USB3 HOST / 1x USB2 OTG-HOST	2 USB 3.0 PORTS / 2 USB 2.0 PORTS.
Audio Ports	3.5mm jack - stereo output/mic input	3.5mm jack - stereo output/mic input	3.5mm jack - stereo output/mic input
Connectivity	M.2 E Key / M.2 M Key / Ethernet	WiFi® 5 / Bluetooth® 5.0 / M.2 M Key / Ethernet	2.4 GHz and 5.0 GHz WiFi / Bluetooth® 5.0
MIPI	1x 2 lane DSI / 1x 2 lane CSI	1x 2 lane DSI / 1x 2 lane CSI	2 lane MIPI DSI / 2 lane MIPI CSI
Storage	Micro SD / eMMC	Micro SD / eMMC	Micro SD
UARTS	5x UART	5x UART	1x UART
External Antenna	✗	✗	✗
RTC	✓	✗	✗
Power On/Off	✓	✓	✗
Software	ARMv8 Instruction Set / Debian/Ubuntu Linux / Android 11 / Hardware access control library for Linux/Android	ARMv8 Instruction Set / Debian/Ubuntu Linux / Android 11 / Hardware access control library for Linux/Android	Raspberry Pi OS / Ubuntu / Manjaro / LibreELEC / Lakka
Operation Temperature	0~50 °C	0~50 °C	0~60 °C
RS SKU & Pack Size	1 unit: 256-3910 100 units: 256-5076	1 unit: 256-3902	

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# ROCK 3 vs. Raspberry Pi 3 COMPARISON TABLE



	3A	3C	Raspberry Pi 3 Model B+	Raspberry Pi 3 Model B
SoC	Rockchip RK3568	Rockchip RK3566-T	Broadcom BCM2837B0	Broadcom BCM2837
Processor	Quad-core Arm® Cortex®-A55 (ARMv8)	Quad-core Arm® Cortex®-A55 (ARMv8)	Quad core Arm® Cortex®-A53	Quad core ARM Cortex-A72 (ARM V8) (64-bit)
Clock	2.0GHz	2.0GHz	1.5GHz	1.5GHz
GPU	Arm Mali™ G52	Arm Mali™ G52-2EE	VideoCore VI	VideoCore VI
Memory	Up to 2GB 64bit LRDDR4 RAM	Up to 2GB 32bit LRDDR4 RAM	1GB RAM LPDDR2	1GB RAM LPDDR2
Power	USB Type-C™ PD / Qualcomm® Quick Charge™ / GPIO	USB Type-C™ / GPIO	Micro-USB (2.1 A)	Micro-USB (2.1 A)
HDMI	1x HDMI up to 4K@60fps	1x HDMI up to 4K@60fps	1x HDMI 1080p	1x HDMI 1080p
USB	2x USB2 HOST / 1x USB3 HOST / 1 x USB 3.0 OTG-HOST	2x USB2 HOST / 1x USB3 HOST / 1x USB2 OTG-HOST	4 USB 2.0 PORTS	4 USB 2.0 PORTS
Audio Ports	3.5mm jack - stereo output/mic input	3.5mm jack - stereo output/mic input	3.5mm jack - stereo output/mic input	3.5mm jack - stereo output/mic input
Connectivity	M.2 E Key / M.2 M Key / Ethernet	WiFi® 5 / Bluetooth® 5.0 / M.2 M Key / Ethernet	2.4GHz WiFi / Bluetooth BLE 4.2 / Ethernet	2.4GHz WiFi / Bluetooth 4.1 / Ethernet
MIPI	1x 2 lane DSI / 1x 2 lane CSI	1x 2 lane DSI / 1x 2 lane CSI	MIPI DSI / MIPI CSI	MIPI DSI / MIPI CSI
Storage	Micro SD / eMMC	Micro SD / eMMC	Micro SD	Micro SD
UARTS	5x UART	5x UART	1x UART	1x UART
External Antenna	✗	✗	✗	✗
RTC	✓	✗	✗	✗
Power On/Off	✓	✓	✗	✗
Software	ARMv8 Instruction Set / Debian/Ubuntu Linux / Android 11 / Hardware access control library for Linux/Android	ARMv8 Instruction Set / Debian/Ubuntu Linux / Android 11 / Hardware access control library for Linux/Android	Raspberry Pi OS / Ubuntu / Manjaro / LibreELEC / Lakka	Raspberry Pi OS / Ubuntu / Manjaro / LibreELEC / Lakka
Operation Temperature	0~50 °C	0~50 °C	0~60 °C	0~60 °C
RS SKU & Pack Size	1 unit: 256-3910 100 units: 256-5076			

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