Part No.: 206048
Vendor Part No.: RS117-D8

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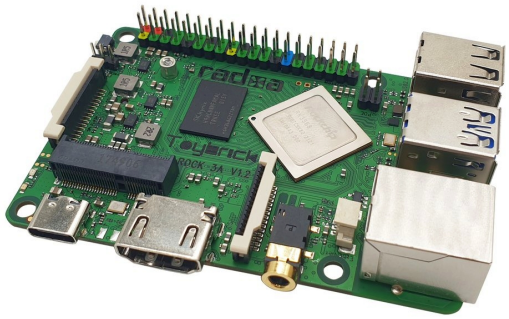

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Rockchip RK3568 64bit quad-core based SBC

The latest generation SBC based on the RK3568 in the traditional form factor. Outstanding features, maximum flexibility and leading development standards are sure to make this SBC the highlight of 2021 in this market segment.

Rock 3A product details

RK3568 64bit quad-core processor

Quad Core Cortex-A55 with up to 2GHz

GPU

Mali G52 GPU, OpenGL ES 1.1/2.0/3.2,OpenCL 2.0,Vulkan 1.1, high-performance dedicated 2D processor

NPU

0.8T NPU

Memory LPDDR4

64bit dual channel LPDDR4@3200MT/s, 2, 4 & 8GB

DRAM controller frequency up to 1560MHz

Errors and technical changes that serve the interests of progress or development of the product, are reserved.

SPI Flash

16MB SPI-Flash reliable

Wifi/BT

Wifi/BT with support for external M.2 modules

eMMC module (removable)

Industry-grade high-performance eMMC memory, 16G/32G/64G/128G available

Micro SD card

uSD slot supports up to 128G uSD card

M.2 interfaces

M.2 connector M button (bottom) for NVMe with PCIe 3.0 x2 lanes

Note: M.2 expansion board plus heatsink is recommended for proper installation on the Rock 3

M.2 connector E button (top) for connectivity with PCIe 2.0 x1/SDIO/UART, WiFi6 cards are supported (please check the available M.2 WiFi modules)

Display HDMI

HDMI 2.0 up to 4k@60

1x MIPI DSI

Peripheral devices

MIPI DSI 2 lanes via FPC connection

HDMI and MIPI DSI can work simultaneously and support mirror or extension mode.

Audio 3.5 mm jack with microphone with improved mechanics

HD codec that supports up to 24-bit/96kHz audio.

MIPI CSI camera

MIPI CSI 2 lanes via FPC connection, supports up to 8MP camera

USB 3.0 OTG x1

USB 3.0 HOST x1

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Hardware switch for host/device switching, upper

Dedicated USB 3.0 channel, lower

Both USB3.0 ports can be configured in SATA mode with an optional SATA breakout cable (mixed USB3.0/SATA mode)

USB 2.0 HOST x2

Network

Wireless/Bluetooth

üvia optional M.2 WiFi/ BLE modules

LAN

GbE LAN with PoE support

an additional HAT is required for the power supply via PoE

IO 40-pin extension connector :

- 1 x UART
- 2 x SPI bus
- 2 x I2C bus
- 1 x PCM/I2S
- 1 x SPDIF
- 1 x PWM
- 1 x ADC
- 6 x GPIO
- 2 x 5V DC power input
- 2 x 3.3V power connection

Other

RTC battery connection for the time backup

Power supply USB PD (new generation QC/PD protocol IC)

Supports USB type C PD 2.0, 9V/2A, 12V/2A

Power supply Qualcomm® Quick Charge™

Supports QC3.0/2.0 adapter, 9V/2A, 12V/1.5A

Size 85mm x 54mm

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Accessories

Part No.	Name
158941	Rock Pi 4 zbh. Power Supply Adapter QC 3.0
158775	Rock Pi 4 zbh. M.2 Extend board
158776	Rock Pi 4 zbh. EMMC 5.0 16GB also fits for ODroid
158777	Rock Pi 4 zbh. EMMC 5.0 32GB also fits for ODroid
158778	Rock Pi 4 zbh. EMMC 5.0 64GB also fits ODroid
158779	Rock Pi 4 zbh. EMMC 5.0 128GB also fits ODroid
158780	Rock Pi 4 zbh. eMMC to Micro-SD
158782	Rock Pi 4 zbh. RTC Battery
158878	Rock Pi 4 zbh. USB to TTL
162798	
162899	
166412	Rock Pi 4 zbh. Proto Hat / Shield 3er Set
158949	Rock Pi 4 zbh. USB 3.0 Male Type A to A 1,5m
158950	Rock Pi 4 zbh. USB 2.0 Male Type A to C 3A 1,5m
124768	Flash SecureDigitalCard (SD) 32GB *Kingston* microSDHC - Class 4
155302	Flash SecureDigitalCard (SD) 32GB *Kodak + Adapter CL10 SDHC UHS-I U3 95MB/s Blister
157756	Flash SecureDigitalCard (microSD) 128GB - EMTEC Gold+
182905	Flash SecureDigitalCard (microSD) 32GB - EMTEC Gold+
188838	Flash SecureDigitalCard (microSD) 16GB - EMTEC Gold+
194677	Flash SecureDigitalCard (SD) 64GB *EMTEC* Gaming microSDXC + Adapter CL10 + UHS-3 v30 Violett 100MB/s Blister
172834	Rock Pi 4 /E /3A e.g. EMMC adapter to USB 3.1
174123	
187726	
192533	ALLNET Spare Power Supply QC USB-C PD Power Supply 87 Watt**
200324	ALLNET Spare Power Supply QC USB-C PD Power Supply 65W EU
200325	ALLNET Spare Power Supply QC USB-C PD Power Supply 65 C+AA
183922	Rock Pi Wireless Module A1
210354	ALLNET PoE Splitter-Mini/Extractor / Gigabit / 24W / 5V/12V Switchable / ALL-PS102G-AF-AT
214123	ALLNET Air Mouse G10 Pro Remote Control 2.4GHz USB Dongle with Infrared

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