

Rock960 Board - Based on the RK3399 SoC - 4GB RAM Version

SKU 102110159

Description

The Rock960 is based on the RK3399 SoC which is a Dual Cortex-A72 + quad Cortex-A53 CPU, with up to 2.0GHz frequency.

This board comes packed with 4GB of RAM, 32GB of on board eMMC storage, USB 3.1 type C with DP, HDMI 2.0 with 4K output, 4 lane M.2 PCI-E 2.1, and so much more!

Features :

- RK3399(A72x2+A53x4),4G/32G
- Mali T860MP4, OpenGL 3.2, OpenCL 1.2
- HDMI 2.0 4K@60
- USB type C with DP 1.2 + USB 3.0
- 4 lanes PCIE 2.1
- 2x2 MIMO 802.11 AC Wi-Fi, BT 4.1
- 96boards Low speed/High speed expansion

Expansion :

1x 40 pin low speed expansion connector – UART, SPI, I2C, GPIO, I2S

1x 60 pin high speed expansion connector – MIPI DSI, USB, MIPI CSI, HSIC, SDIO

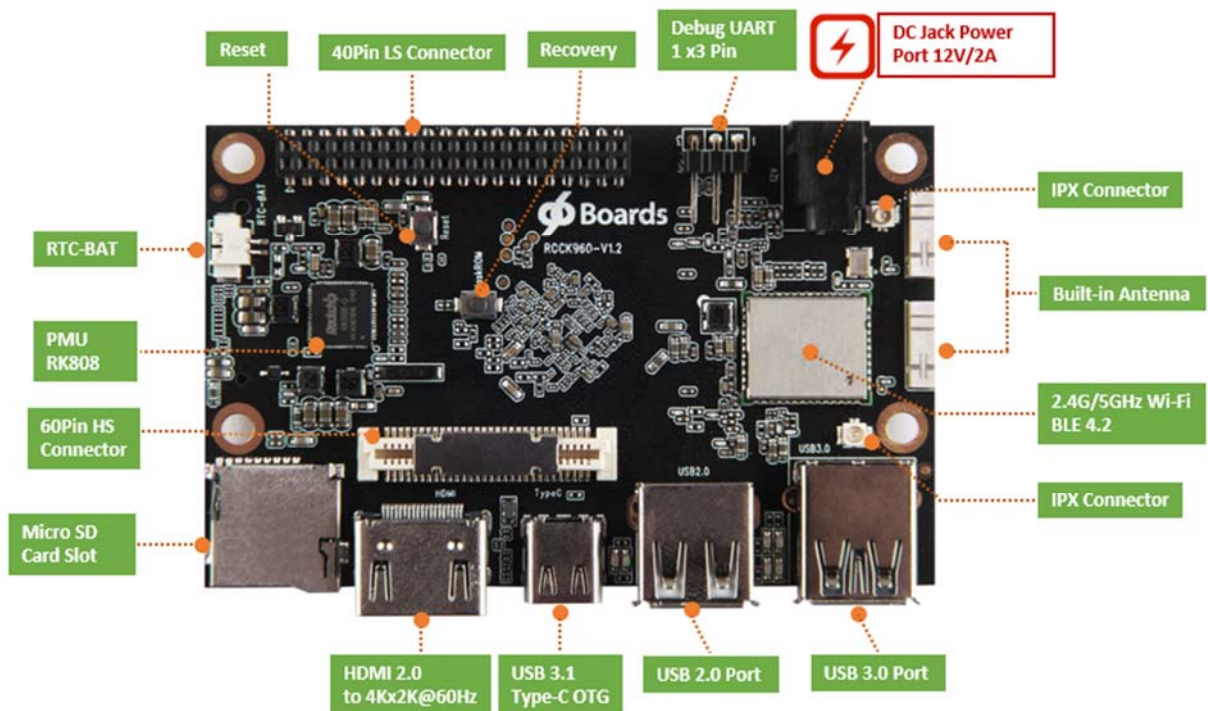
1x M.2 key M PCIe connector with support for up to 4-lane PCIe 2.1 (max bandwidth: 2.0 GB)

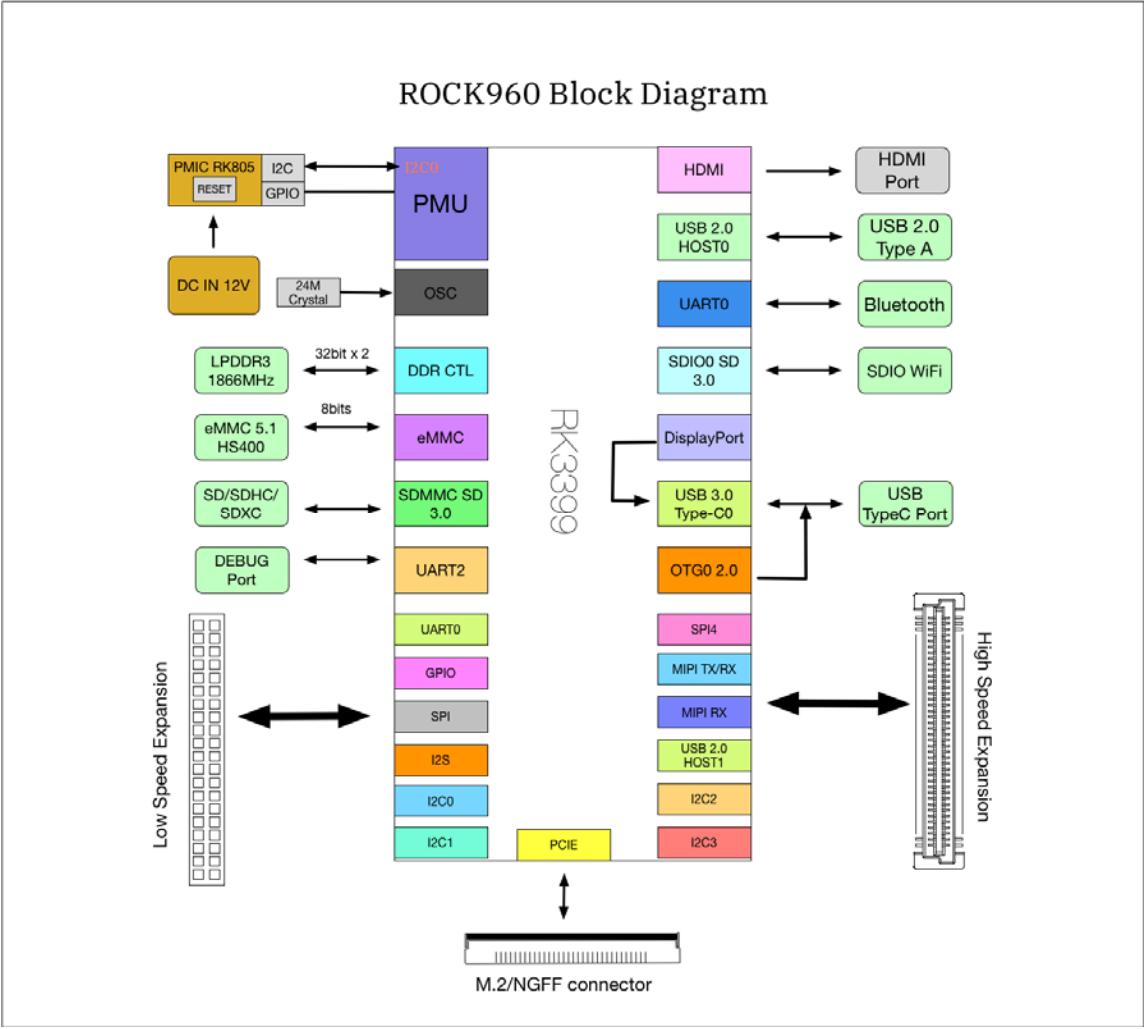
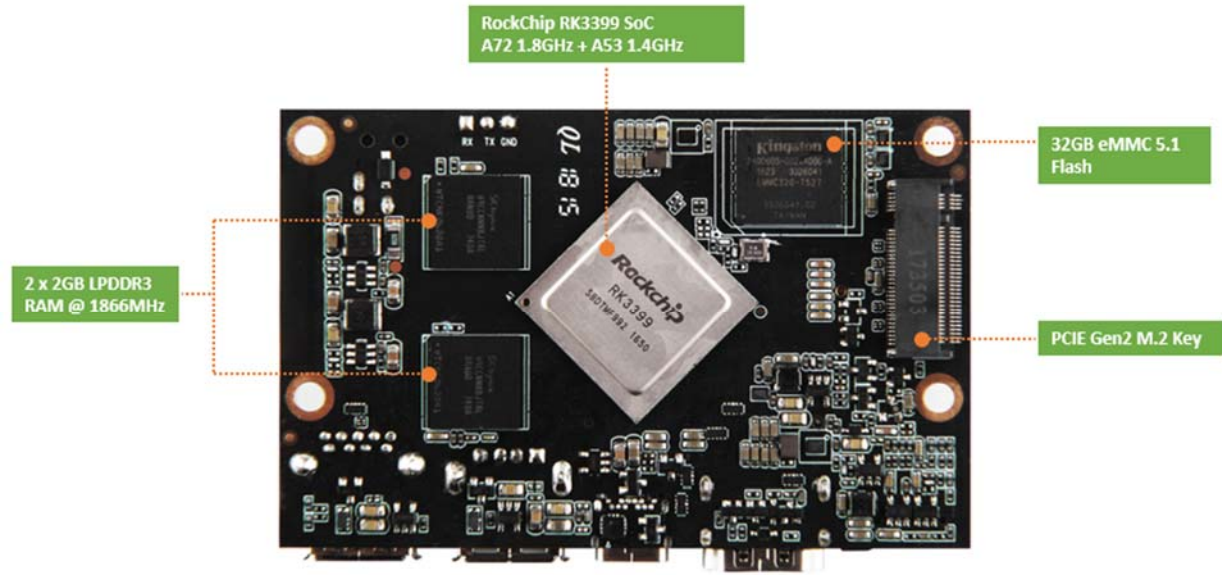
Misc – Power & u-boot buttons. 6 LEDs (4x user, 1x Wifi, 1x Bluetooth)

Power Supply – 8 to 18V DC input (12V typical) as per 96Boards CE specs; Battery header

We also provide a Rock960 2G version, you can check [here](#).

Board Overview





Technical Details

Dimensions	185mm x 113mm x 115mm
Weight	G.W 520g N.W 517.80g
Battery	Exclude
SoC	Rockchip RK3399
CPU	ARM Cortex-A72 Dual-core up to 1.8GHz + Cortex A53 Quad-core up to 1.4GHz
GPU	ARM Mali T860MP4
RAM	4GB LPDDR3 @ 1866MHz
PMU	RK808-D
Storage	32GB eMMC 5.1
Ethernet Port	USB 2.0/3.0 expansion
Wireless	WLAN 802.11 ac/a/b/g/n, 2xMIMO, 2.4GHz and 5Ghz, Bluetooth 4.2. On board WLAN/BT antennas
USB	1 x USB 3.0 type A and 1 x USB 2.0 type A (host mode only) and 1 x USB 3.0 type C OTG
Display	1 x HDMI 2.0(Type A - full) up to 4Kx2K@60Hz, 1 x 4L - MIPI DSI up to 1080p@60Hz, 1 x DP 1.2(Type C) up to 4Kx2K@60

Video	Inside decoder: H.264 10bit up to HP level 5.1 - 2160p@60fps (4096x2304), VP9 - 2160p@60fps(4096x2304), H.265/HEVC 10bit - 2160p@60fps(4096x2304), MPEG-1, MPEG-2, MPEG-4, H.263, VP8, VC-1
Audio	HDMI output
Camera	2 x 4-lane MIPI CSI
Expansion Interface	40 pin low speed expansion connector: +1.8V, +5V, DC power, GND, 2UART, 2I2C, SPI, I2S, 12xGPIO and 60 pin high speed expansion connector: 4L-MIPI DSI, I2C x2, SPI (48M), USB 2.0, 2L+4LMIPI CSI
LED	1 x WiFi activity LED (Yellow), 1 x BT activity LED (Blue) and 4 x User LEDs (Green)
Button	Reset button, recovery button
Power Source	Recommend a 12V@2A adapter with a DC plug which has a 4.75mm outer diameter and 1.7mm center pin with standard center-positive (EIAJ-3 Compliant)
OS Support	AOSP/Debian/Ubuntu/Fedora/LibreELEC/Lakka/FlintOS
Size	85mm x 55mm

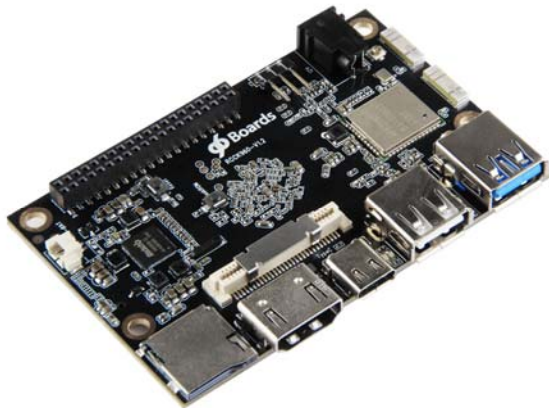
Part List

ROCK960 board	1
12V/2A power adapter	1
Screws Pack	2

Heatsink(22mm x 22mm)	1
Heatsink Plaster	1
Transparent acrylic case	1
Heatsink Case	1

ECCN/HTS

ECCN	5A991
HSCODE	8471504090





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