
Radxa ROCK Pi S Core

A low-cost SoM for IoT and Audio applications

Revision 1.0

2025-04-14



Radxa Computer



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1 Revision Control Table

Version	Date	Changes from previous version
1.0	19/04/2023	First version

2 Introduction

ROCK Pi S Core is a Rockchip RK3308B based SoM(System on Module) by Radxa. It equips a 64bits quad core processor, ethernet, wireless connectivity and voice detection engine at the size of 35x35mm, make it perfect for IoT and voice applications. ROCK Pi S Core comes in two ram sizes 256MB or 512MB DDR3, and uses uSD card for OS and storage. Optionally, ROCK Pi S Core can provide on board storage version with 128MB/256MB/512MB NAND flash or 8GB/16GB eMMC



Note: The actual board layout or components location may change during the time but the main connectors type and location will remain the same

3 Features

3.1 Hardware

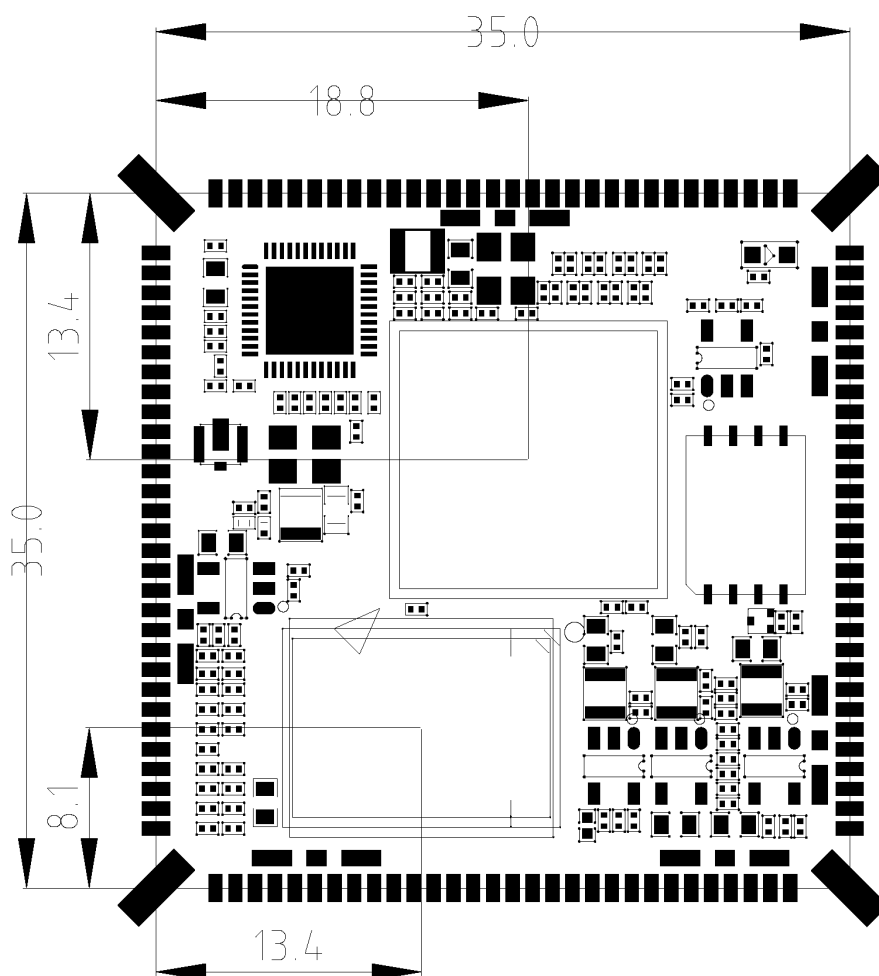
- Rockchip RK3308B SoC
- Quad Cortex®-A35 @ 1.0GHz

- DDR3 RAM options:
 - 256MB
 - 512MB
- Optional on board 128MB / 256MB / 512MB NAND Flash or 8GB / 16GB eMMC
- Support 802.11 b/g/n WiFi and BT 4.0 with external antenna
- Support 100Mbps Ethernet
- A wide range of interface options
 - GPIO
 - SDIO 3.0
 - USB 2.0 OTG
 - USB 2.0 HOST
 - PDM
 - S/PDIF
 - I2S
 - Line Out
 - Headphone Out
 - Microphone Input

3.2 Software

- ARM V8 Instruction Set
- Debian/Ubuntu Linux support

4 Mechanical Specification



5 Rich Audio interfaces

Radxa ROCK Pi S Core support rich audio interfaces, such as I2S, PCM, TDM, PDM, SPDIF, VAD(Voice Activity Detection) and so on, can meet different audio application development, reduce hardware development complexity and development cost.

6 Availability

Radxa guarantees availability of the ROCK PI S Core until at least September 2033.

7 Support

For support please see the hardware documentation section of the [Radxa Documentation](#) website and post questions to the [Radxa forum](#).