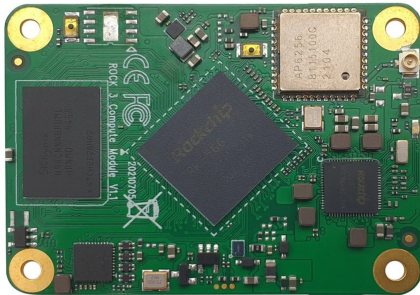


RADXA CM3i industrial embedded SOM module 1GB RAM /no EMMC no Wifi

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EAN CODE



RADXA's new CM3i is a feature rich Industrial Embedded SoM (System on Module)

Based on the Rockchip RK3568 (J) Industrial Grade SoC in a small form factor of 70mm x 40mm, it integrates CPU/PMU/DRAM/FLASH STORAGE and Wireless. (WiFi5/BT5)

Radxa's CM3i offers an out of the box, cost-effective solution for countless applications. It as well simplifies and accelerates industrial product developments.

Overview of features:

Quad core 64 bit High Performance Solution

Radxa CM3i is powered by the Rockchip RK3568(J) SoC, a 64bit Quad Cortex A55 (ARM v8) low power core @2.0GHz. It is available with a maximum of 8GB RAM, up to 128GB eMMC storage and powerful network ability (onboard Gigabit Ethernet PHY and WLAN IEEE802.11b/g/n/ac + BLE5).

In developing a carrier board, engineers can time efficiently build industrial solutions and get them ready for mass production.

Rich interfaces

I2C, SPI, UART, ADC, PWM, GPIO, Ethernet, CAN, PDM, USB2, USB3, I2S, MIPI, SATA, eDP interfaces are available as well as PCIe 2.0 high bandwidth buses.

Display Capability



The Dual Video Out put Processor supports dual display output to any two of HDMI, eDP, MIPI, DP, with a resolution of up to 4K x 2K and one 2.5k

Powerful multimedia utility support

4K VP9 and 4K 10bits H264/H265 video decoding, up to 60FPS

multiple 1080P video formats decoding including VC-1, MPEG-1/2/4, VP8

1080P encoding to H.264, VP8 formats

Small size and low power

70mm x 40mm form factor and industry compatible 4 x 100PIN board to board connectors save board space and provide standardized interfaces and save board space.

Multiple OS support

Ubuntu / Debian / Android (11/12)

Open documents and source code

Source code, documents, tools & utilities are freely available, community and commercial support are available to help you put your prototype into production

Widely used in various applications

Perfect SoM for Robotics, Industrial Control, Medical Equipment etc.

Detailed technical specs:

Processor:

Rockchip RK3568 (J), Quad core Cortex-A55 (ARM v8) 64-bit SoC @2.0GHz

Memory:

1GB, 2GB, 4GB or 8GB LPDDR4 (depending on variant)

Connectivity:

- Optional wireless LAN, 2.4GHz and 5.0GHz IEEE 802.11b/g/n/ac wireless, Bluetooth 5.0, BLE with onboard and external antenna options
- Onboard Gigabit Ethernet PHY
- 1 x USB 2.0 port (highspeed), 1 x USB 3.0 port (5Gbps)
- 1 x PCIe 1-lane Host, Gen 2 (5Gbps)
- 2 x SATA ports, one shared with USB 3, one shared with PCIe
- 50 x GPIO support



Part No.: 209264
Vendor Part No.: RM118-D2E8J1W13

Video:

- 1x HDMI up to 4K x 2K@60HZ
- 1x eDP four lanes, 2.7Gps per lane
- 2x MIPI DSI four lanes, 1.6Gbps per lane

Audio:

- LINEOUT
- I2S
- PDM, support mic array

Multimedia:

- VP9/H.264/H.265 decode 4K@60HZ
- H.264/H.265 encode 1080P@100HZ
- OpenGL ES 3.2/OpenCL 2.0/Vulkan 1.1 GPU

Input power: 5V DC

Connector: 4x 100P 0.5mm pitch B2B connector

Operation Temperature:

- J0 model (RK3568) 0° to 60° C
- J1 model (RK3568J) -40° to 85° C

Dimension: 70 mm x 40 mm

Accessories

Part No.	Name
158941	Rock Pi 4 zbh. Power Supply Adapter QC 3.0
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
210354	ALLNET PoE Splitter-Mini/Extractor / Gigabit / 24W / 5V/12V Switchable / ALL-PS102G-AF-AT

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