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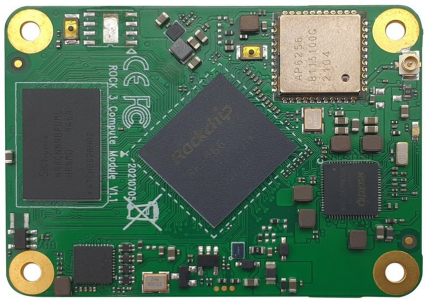

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The new CM3I from RADXA is a feature-rich industrial embedded SoM (System on Module)

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)

The CM3I from Radxa offers a ready-to-use, cost-effective solution for countless applications. It also simplifies and accelerates industrial product development.

Overview of the functions:

Quad-core 64-bit high-performance solution

The Radxa CM3I is powered by the Rockchip RK3568(J) SoC, a 64-bit Quad Cortex A55 (ARM v8) low-power core with 2.0GHz. It is available with a maximum of 8 GB RAM, up to 128 GB eMMC memory and powerful network capabilities (onboard Gigabit Ethernet PHY and WLAN IEEE802.11b/g/n/ac + BLE5).

When developing a carrier board, engineers can develop industrial solutions in a time-saving manner and make them available for mass production.

Rich interfaces

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

Display capability

The dual video out processor supports the output of two displays via HDMI, eDP, MIPI, DP, with a resolution of up to 4K x 2K and a 2.5k

Powerful multimedia support

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

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

1080P encoding to H.264, VP8 formats

Small size and low power consumption

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

Support for multiple operating systems

Ubuntu / Debian / Android (11/12)

Open documents and source code

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

Widely used in various applications

Perfect SoM for robotics, industrial control, medical devices, etc.

Detailed technical data:

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 integrated and external antenna options
- Integrated Gigabit Ethernet PHY
- 1 × USB 2.0 port (high speed), 1 × USB 3.0 port (5 Gbit/s)
- 1 × PCIe 1-lane host, Gen 2 (5Gbps)
- 2 x SATA ports, one shared with USB 3, one shared with PCIe
- 50 × GPIO support

Video:

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

Audio:

- LINEOUT
- I2S
- PDM, supports microphone array

Multimedia:

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

Input voltage: 5V DC

Connection: 4x 100P 0.5mm pitch B2B connection

Operating temperature:

J0 model (RK3568) 0° to 60° C
J1 model (RK3568J) -40° to 85° C
Dimensions: 70 mm × 40 mm

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