

# HRB800480TA13IHC09

Rockchip RK3568

## Features

- High performance and low power for personal mobile internet devices and AIoT equipment
- Support almost full-format H.264 decoder by 4K@60fps, H.265 decoder by 4K@60fps, also support H.264/H.265 encoder by 1080p@60fps, high-quality JPEG encoder/decoder
- The built-in NPU supports INT8/INT16/FP16/BFP16 hybrid operations and has strong model compatibility across TensorFlow, MXNet, PyTorch, and Caffe frameworks

## Specifications

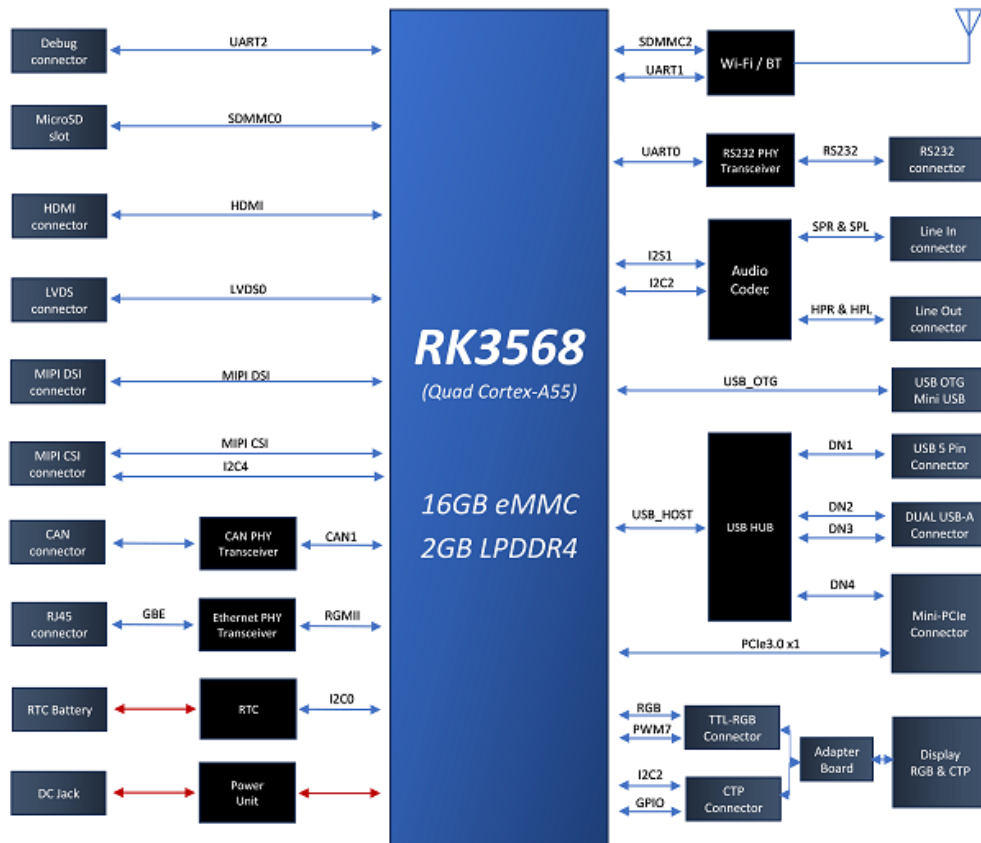
<u>Hardware</u>		
<b>CPU</b>	RK3568	Quad-Core ARM Cortex-A55
<b>GPU</b>	ARM G52 2EE	OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1
<b>NPU</b>	RKNN	Accelerator with processing performance up to 1 TOPS
<b>Memory</b>	On Board RAM	2 GB LPDDR4 SDRAM
	On Board Flash	16 GB eMMC Flash
	External Storage	1 × Micro SD
<b>Display</b>	Resolution	800 × 480 (RGB) dots
	LCD Type	a-Si TFT, normally white, transmissive type
	Touch type	Projective Capacitive Touch Panel
	Interface	24 bits RGB interface

<b>I/O</b>	USB	1 × USB OTG	2 × USB1.1/2.0 Compliant Host
	Ethernet	10/100/1000 Mbps	
	Analog Audio	1 × Input	1 × Output
	Wi-Fi	IEEE 802.11 a/b/g/n/ac	
	Bluetooth	4.2	
	Display	1 × HDMI	1 × MIPI
	Serial (Consider the IOMUX)	4 × I <sup>2</sup> C 2 × SPI 1 × I <sup>2</sup> S 1 × CAN GPIO	10 × UART (One for debug used) 2 × SDMMC 1 × PCIe 2.0 1 × PCIe 3.0 PWM

### Software

<b>OS</b>	Linux, Yocto 4.0 (included QT 5.15)
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## Block Diagram



## Dimensions

