

HRBS07013ZHC05DB01

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

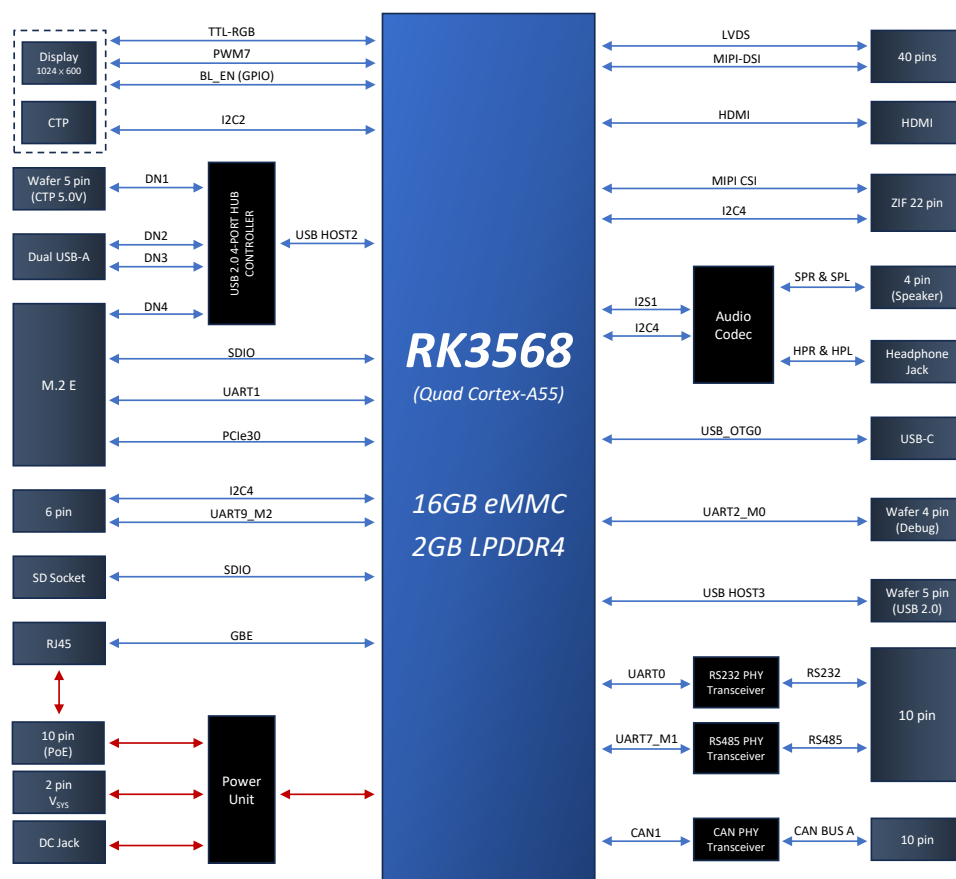
Specifications

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

I/O	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	
	Display	1 × HDMI 1 × LVDS 1 × MIPI-DSI	
	Serial (Consider the IOMUX)	2 × UART (One for Debug Used) 2 × I2C 1 × RS232 1 × RS485 1 × CAN	
	Others	M.2 E-key	

Software		
OS	Default	Debian 11
	Optional	Yocto, Buildroot, Android

Block Diagram



Dimensions

