

HRBS10007-ZHC

Rockchip RK3568

Features

- High-performance Quad-core Cortex-A55 and GPU for portable devices and digital multimedia applications
- Fanless cooling system and ultra-low power consumption
- Support Yocto, Buildroot, Debian and Android system
- Versatile peripheral interfaces for wide range of embedded applications
- Suitable applications: Industrial, Medical, Kiosks, PoS, AIoT, and other multimedia

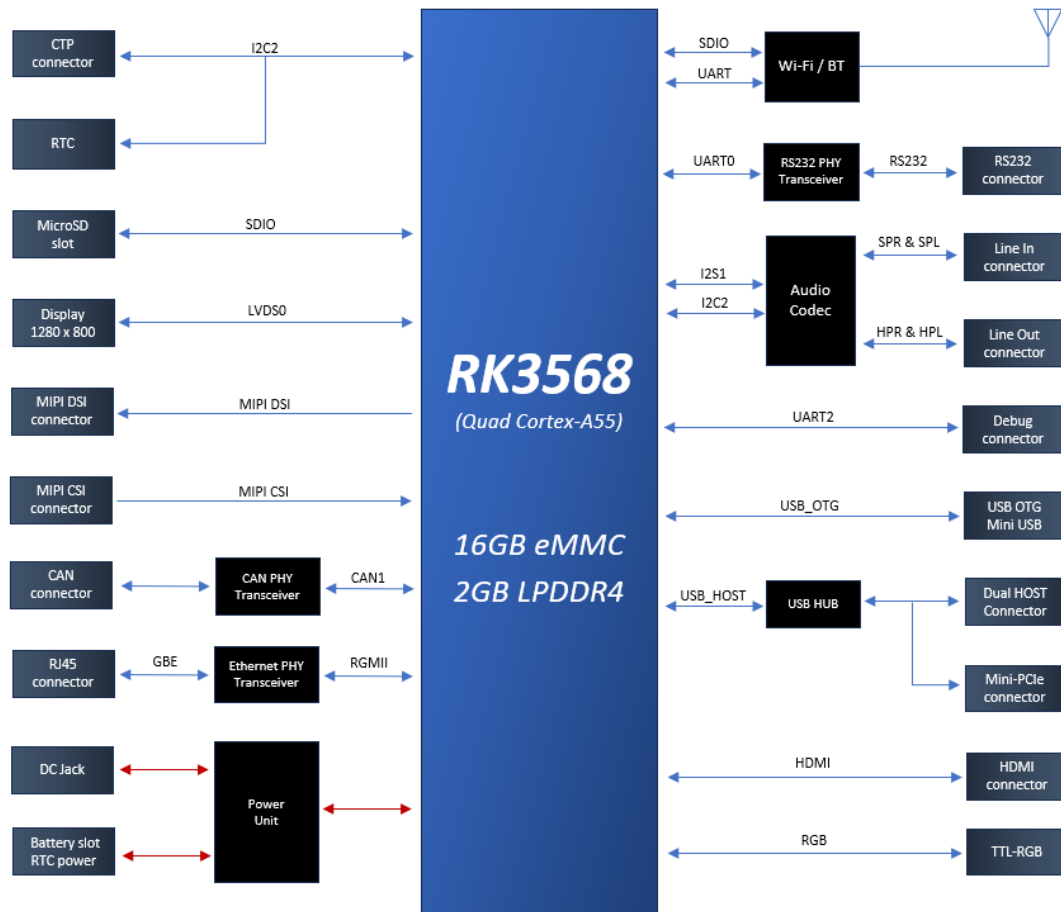
Specifications

Hardware		
CPU	RK3568 (RISC Processor)	Quad-Core ARM Cortex-A55, up to 2.0GHz
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 1.0 TOPs
Memory	On Board RAM	2GB LPDDR4 SDRAM
	On Board ROM	16GB eMMC Flash
	External Storage	1 × Micro SD
Display	Resolution	1280 * 3 (RGB) × 800 DOTs
	Display Mode	Full Viewing Angle, Normally Black, Transmissive type
	Screen Size	10.1 inches
	Display Interface	LVDS
	Touch Panel	Projected Capacitive Touch Panel

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	
	Bluetooth	4.2	
	Camera	MIPI-CSI	
	Display	HDMI, MIPI-DSI, TTL-RGB	
	Serial (Consider the IOMUX)	4 × I ² C 2 × SPI 1 × I ² S 1 × CAN GPIO	10 × UART (One for debug used) 2 × SDMMC 1 × PCIe 2.0 1 × PCIe 3.0 PWM
Power Input	DC	9V ~ 24V	

Software		
OS	Default	Yocto 4.0
	Optional	Android 11, Android 12, Debian 11, Buildroot

Block Diagram



Dimensions

