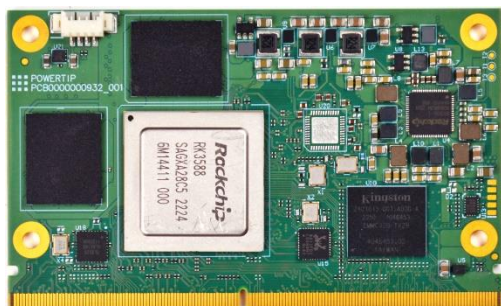


P05D00109-00

Rockchip RK3588

Front View



Features

- Powered by Rockchip RK3588 with octa-core CPU (Cortex-A76 + A55) for high-efficiency computing
- Built-in 6 TOPS NPU enables real-time edge AI applications
- Supports 8K@60fps decoding and 8K@30fps encoding (H.265/VP9/H.264)
- Rich I/O:USB, SDIO, audio, video input/output for various embedded uses
- Ensures fast and stable network connectivity for industrial and AI systems

Specifications

Hardware		
CPU	RK3588	Quad-Core ARM Cortex-A76, Quad-Core ARM Cortex-A55
GPU	Mali-G610 MP4	OpenGL ES 1.1/2.0/3.2 , OpenCL 2.2 , Vulkan 1.2
NPU	RKNN	Accelerator with processing performance up to 6.0 TOPS
Memory	On Board RAM	4GB LPDDR5 SDRAM (Optional :8/16/32GB)
	On Board Flash (Default Boot Device)	32GB eMMC Flash (Optional: 64GB/128GB)
I/O	Display	1 × LVDS 1 × eDP 1 × DisplayPort 1 × HDMI 2.1
	USB	1 × USB 2.0 OTG 1 × USB 3.0 OTG 4 × USB Host (3 for USB 2.0, 1 for USB 3.0)
	Ethernet	1 x 10/100/1000 Mbps

	Default Peripheral	4 × UART (Ser3 for Debug Used) 4 × I2C 2 × SPI 1 × QSPI 2 × I2S 2 × CAN 2 × MIPI-CSI (2 Lane and 4 Lane) 1 × SDIO 1 × SATA 1 × PCIe 2.0 (or 1 × SDMMC) 1 × PCIe 3.0 14 × GPIOs
--	--------------------	---

<u>Software</u>		
OS	Linux	Buildroot Yocto Debian 11
	Android	Android 12.0 Android 13.0

