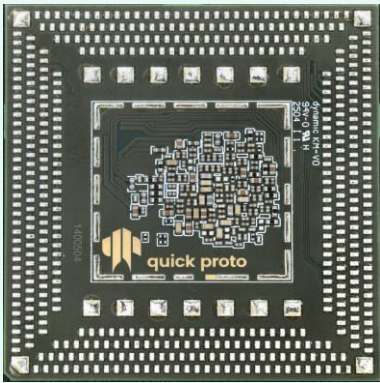


Q01_RKSOM(RK3568SOM)

(System on Module with RockChip 3568 SoC)



RoHS compliant



Technical Detail (released on 24-01-31, updated on 24-12-30)

CPU	Rockchip RK3568/RK3568J, Quad-core ARM Cortex-A55
GPU	ARM G52 2EE with support for OpenGL ES1.1/2.0/3.2, OpenCL 2.0, Vulkan1.1, High performance dedicated 2D processor
NPU	1 TOPS NPU, Support 512MAC NPU
RAM	LPDDR4/LPDDR4X 2GB (1GB to 8GB optional)
ROM	16GB eMMC (8 - 128GB Optional) 5.1 flash storage
Supported OS	Linux, Android
Supply power	4 V DC
Video codec	Support 4K 60fps H.265/H.264/VP9 decoder Support 1080P 60fps H.265/H.264 encoder
Display	Support multi-display Support eDP/HDMI2.0/MIPI/LVDS/24bit RGB/T-CON Resolution up to 4k@60Hz
Camera	1x 4-lane or 2x 2-lane MIPI CSI interfaces @ 2.5 Gbps/lane
ISP	Support 8M ISP with HDR
Network	10/100/1000M BASE-T
USB	USB 3.0 x2(Gen1), 2x USB 2.0
PCIe	PCIE3.0 1X2Lanes/2X1 Lane/PCIE2.0
Others	1x8ch I2S/TDM, 1x8ch PDM, 2x2ch I2S SATA3.0
	QSGMII Extend Wi-Fi & Bluetooth via SDIO3.0
Audio	for audio output 2 x 8ch I ² S/TDM, 1x8ch PDM, 2x2ch I ² S/PCM,1x8ch SPDIF
Optional accessory	Heatsink fan (adjustable speed, 4 lines)
Dimensions	50 mm x 45 mm
Temperature	– Operating: -20°C to 85°C(-40°C to 85°C for Industrial option) – Storage: -20°C to 85°C
Relative Humidity	– Operating: 10% to 90% – Storage: 5% to 95%

For further information, Contact us by Email: admin@qtepro.com