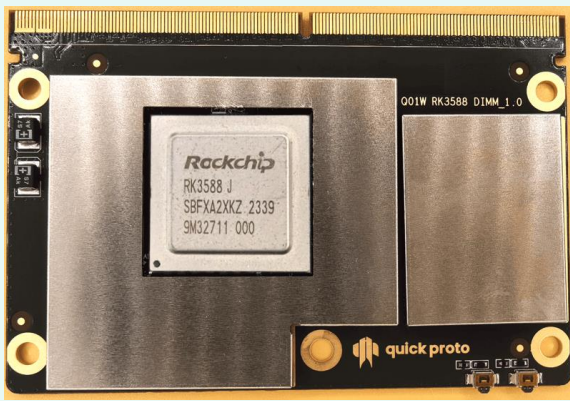


Q01_RK DIMM(RK3588 DIMM)

(RockChip 3588J SoC)



A member of QTE



CE, FCC, IC, UKCA certified,
RoHS compliant

Technical Detail (released on 24-07-31, updated on 25-11-24)

CPU	Quad-core Cortex-A76 + Quad-core Cortex-A55, Neon and FPU
GPU	Arm Mali-G610 MC4 with support for OpenGL ES3.2, OpenCL 2.2, Vulkan1.2
NPU	RKNN, 6 TOPS NPU with support for TensorFlow, Caffe, TFLite, PyTorch, ONNX NN, Android NN
Memory	4 GB, 8 GB, 16 GB, or 32 GB 64-bit LP4/LP4X/LP5/LP5X
Storage	32 GB, 64 GB, 128 GB, or 256 GB eMMC 5.1 flash storage
Supported OS	Debian 11, Android 12, Ubuntu 22.04, and Armbian 23.07
Power Supply	4~5 V DC
Video codec	8Kp60 video decoding (H.264/H.265/VP9) 8Kp30 video encoding (H.264/H.265)
Display	1x HDMI interface + 1x DP/eDP combo interface, up to 7680 x 4320@60 Hz for HDMI and DP, and 3840 x 2160@60 Hz for eDP
Camera	3x 4-lane or 5x 2-lane MIPI CSI interfaces @ 2.5 Gbps/lane
ISP	48M ISP, HDR
Network	10/100/1000M BASE-T, up to 10G
USB	1x USB 3.0 (Gen1), 3x USB 2.0
PCIe	PCIe 3.0 x4 + PCIe 2.1 x1
Others	– UART DEBUG x1, UART+flow control x2 – SPI x2 – I2C x4 – CAN x1 – I2S x4 – SD 4.0, SDHOST 4.0, and SDIO 3.0 – PWM x3, GPIO x15
OTP	Size: 8K
Optional accessory	Heatsink, fan(Adjustable speed)
Dimensions	82 mm x 55 mm (PCB thickness 1.2mm)
Temperature	– Operating: -40°C to 85°C, -40°C to 105°C for Automotive 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