

TC-RK3568 Stamp Hole Core board

SOM3568 is a high-performance core board designed by Shenzhen Thinkcore based on the RK3568 micro processor of Rockchip. The CPU adopts a quad core 64 bit Cortex-A55, 22nm advanced technology, and the main frequency is up

to 2.0GHz; Integrated ARM G52 2EE GPU, fully compatible with OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1, etc; Built in the third generation NPU RKNN developed by Rockchip Micro, the computing power is 0.8Tops, and it supports deep learning frameworks such as caffe, TensorFlow, mxnet, etc. The model can be converted with one click.

It has excellent video processing performance and supports 4K 60fps H.265/H 264/VP9 video decoding, supporting 1080P 60fps H.265/H 264 video encoding, supporting 8M ISP HDR.

The SOM3568 can be configured with a maximum memory capacity of 8GB, up to 32Bit width, and a frequency of up to 1600MHz; Support full link ECC, make data more secure and reliable, and meet the requirements of large memory product application scenarios.

It has rich interface resources, supports two-way GMAC, expandable 10/100/1000Mbps network interface, supports two-way PCIE GEN3.0 interface, and has UART/SPI/I2C/SDIO and other common interfaces.

Tel:+86-13823135966



The SO-DIMM interface standard is adopted to make the product more stable, reliable and convenient for engineers to design products based on modules, so that the product can be quickly launched.

SOM3568 supports Android 11, Ubuntu, Debian10, Buildroot+QT and other systems with excellent real-time performance. It is widely used in IoT gateway, edge computing, cloud terminal, intelligent NVR, industrial control, face gate, vehicle mounted central control and other scenarios. It is equipped with complete development materials and mature application solutions, which can reduce the threshold of customer research and development and shorten the product research and development cycle.







Efficiency Neural Network NPU boosts Universal Industrial embedded Application Aialization

Tel:<u>+86-13823135966</u>





Tel:<u>+86-13823135966</u>

E-mail:sales@thinkcore.cn







Large memory	Large storage	Dynamic FM
2GB, 4GB, 8GB optional	16GB, 32GB storage optional	RK809 Power Management
2G LPDDR4	4G LPDDR4	8G LPDDR4
8G EMMC	32G EMMC	32G EMMC
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Shenzhen Thinkcore Technology Co.,LTD.





NVR Solution

Enabling AI hard disk Video Recorder

In the process of digitalization, networking: high cleaning and intelligent development of video surveillance system, the market demand of network video surveillance is increasing day by day. With the development of security industry, especially the safe city, intelligent transportation and other projects, the monitoring scene is becoming more and more complicated. The application of grilled hard disk video recorder (NVR/XVR) after the dispersion of monitoring points is gradually expanded, and its performance requirements are constantly improved. In this regard, Xun supports a new security back-end hard disk video recorder NVR/XVR chip scheme on RK3568.



Support 3 OS customization

Android 11/Ubuntu /Debian











