



Product specification

3588-NAS

http://www.we-signage.com/

3588-NAS Product introduction

- 3588-NAS is an embedded 8K artificial intelligence board developed by HYY based on the core module SOM3588 designed by Rockchip, with the core of the new generation flagship chip RK3588 8-core (A76x4+A55x4) 64-bit processor of Rockchip; The main frequency is up to 2.4GHz, the integrated quad-core Mali-G610 GPU, and the AI accelerator NPU with built-in 6.0TOPs computing power. With strong performance and ultra-low power consumption, it can bring more optimized performance for various AI application scenarios.
- 3588-NAS supports multi-channel 8K video output and 4K video input 8K@60fps H.265/VP9 video decoding and 8K@30fps H.265/H.264 video coding, can be coded and decoded simultaneously, up to 32 channels 1080P@30fps Decoding and 16-way 1080P@30fps code;The powerful video encoding and decoding ability can make the picture 8K HD, and the picture quality is more exquisite.
- 3588-NAS supports Ubuntu 20.04, Debian11, Android 12 and other systems, with excellent real-time performance and high stability. In terms of hardware and software, it can add its own unique technology to ensure the stability of the product. It is widely used in ARM PC, edge computing, cloud server, intelligent NVR. It is equipped with complete development materials and mature application solutions, which can reduce the threshold for customer research and development, Shorten product development cycle.



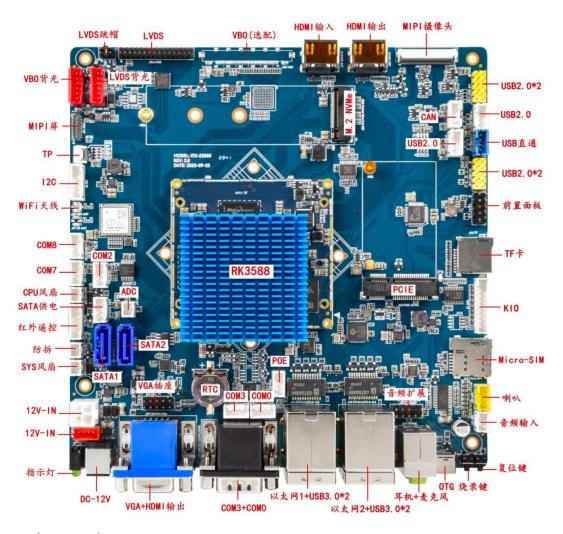


Specifications

Basic Specifications		
SOC	RockChip RK3588	
CPU	4x Cortex-A76 and 4x Cortex-A55 2.4GHz	
GPU	Arm Mali-G610 MP4 GPU	
AI Accelerato	6 TOPS NPU 3.0 (Neural Processing Unit)	
	Supports framework switching of TensorFlow/MxNet/PyTorch/Caffe/etc	
ISP	Integrated 48MP ISP with HDR&DNR	
VPU	Video decoding:	
	8K@60fps H.265/VP9/AVS2	
	8K@30fps H.264/AVC/MVC	
	4K@60fps AV1	
	1080P@60fps MPEG-2/-1/VC-1/VP8	
	Video encoding:	
	8K@30fps encoding,Supports H.265/H.264	
	* Achieves up to 32-channel 1080P@30fps decoding and 16-channel	
	1080p@30fps encoding	
RAM	4GB/8GB/16GB/ 64bit LPDDR4/LPDDR4x/LPDDR5(Up to 32GB optional)	
Storage	16GB/32GB/64GB/128GB eMMC	
Storage Expansion	2x SATA3.0,can expand with 2pcs of SATA3.0 SSD/HDD	
Hardware Specifications		
Wireless	2.4GHz/5GHz dual-band WiFi 6,Bluetooth 5.0,supports 5G/4G LTE expansion	
Ethernet	2 x GbE(RJ45),one supports POE power supply	
Display	Video output:	
	1 x HDMI2.1 8k	
	1 x LVDS 30-pin	
	1 x MIPI-DSI 31-pin	
	1 x VGA 1080p	
	1 x VBO 51-pin	
	Video input:	
	1 x HDMI_IN(4K@60fps),Supports HDCP2.3	
	* Supports multi-channel 8K video output and 4K video input, up to	
	four-screen output with different displays	
Audio	1 x Speaker output	
	1 x HDMI Audio output	
	1 x Audio Jack output	
	1 x Audio Jack input	
PCIE	1 x PCIe3.0(4Lane),can expand with standard PCIe3.0 devices	

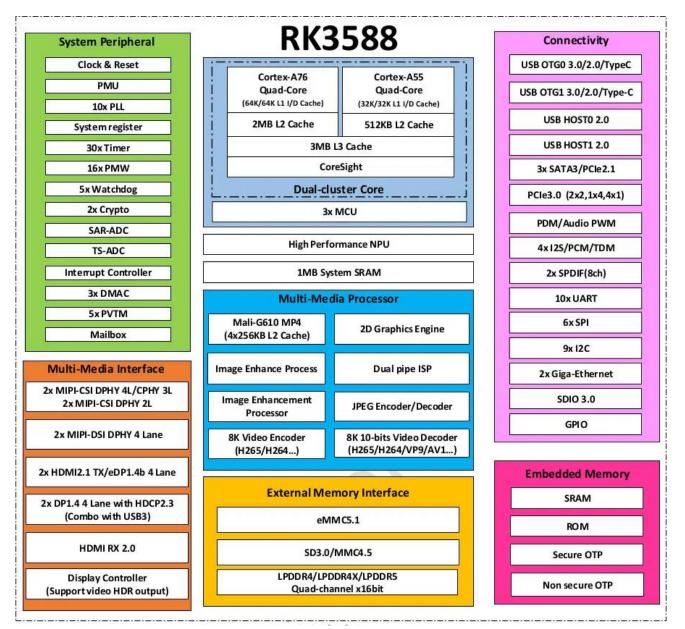
HYY Technology Co.,Ltd

SATA	1 x M.2 PCIE NVME SSD,2 x SATA	
USB	4 x USB3.0, 5 x USB2.0	
Serial Port	2 x DB9 , 5 x TTL ,	
Power	DC12V input(DC5.5x2.1mm)	
	POE 48V power input (up to 60w)	
Other Interface	1xRS485,1xRS232,1xI2C,1xHeating(12V),6xGPIO	
OS/Software		
OS	Android 12.0	
	Ubuntu Desktop,Ubuntu Server,Debian11x	
	* Supports UEFI Boot	
General		
Size	170mm x 170mm	
Heat Dissipation	Heat sink installation hole pitch:45mm	
Power Consumption	Idle:≈1.35W(12V/110mA)	
	Typical:≈4.8W(12V/400mA)	
	Max : ≈12W (12V/1000mA)	
Evironment	Operating Temperature:-20°C-60°C	
	Storage Temperature:-20°C-70°C	
	Storage Humidity:10%-80%	



http://www.we-signage.com/

YHYY Technology Co.,Ltd



More help

If you have any questions about our products or services, you can contact us through the following

ways :

Website: http://www.we-signage.com

Web Store : https://we-signage.en.made-in-china.com

Email:hejiangyan@hotmail.com Wechat: + 86 18672559094 Skype: hejiangyan_1