

深圳金亚太科技有限公司

Shenzhen Geniatech Co.,Ltd.

产品规格书

型号:DB3588

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1. 产品概述

DB3588 是一款高性能单板机产品，它基于瑞芯微性能最强大的 SOC RK3588，它具备强大性能具体如下：

(I) 四核 Cortex-A76 和四核 Cortex-A55, 内置 NPU 算力最大可达 6TOPs, 还带 GPU Mali-G610 MP4 , Android 12 OS or Linux

(II) 支持 8KP60 解码和 8KP30 编码

(III) 支持 2~32GB RAM, 8~256GB eMMC flash, 外部可加载 Micro SD card (Max 512GB)

(IV) 外围接口: USB2.0 * 1, USB3.0 * 1, Type-C *1, Earphone * 1, Debug(Type-C) * 1, Uart to USB (MiniUSB) *1, JTAG * 1

(V) 显示接口: HDMI IN * 1, HDMI OUT * 2, VGA * 1

(VI) 内置其他: MIPI CSI * 2, MIPI DSI * 1, MIPI D/C PHY * 1, PCIe * 1, SATA * 2, MIC * 2

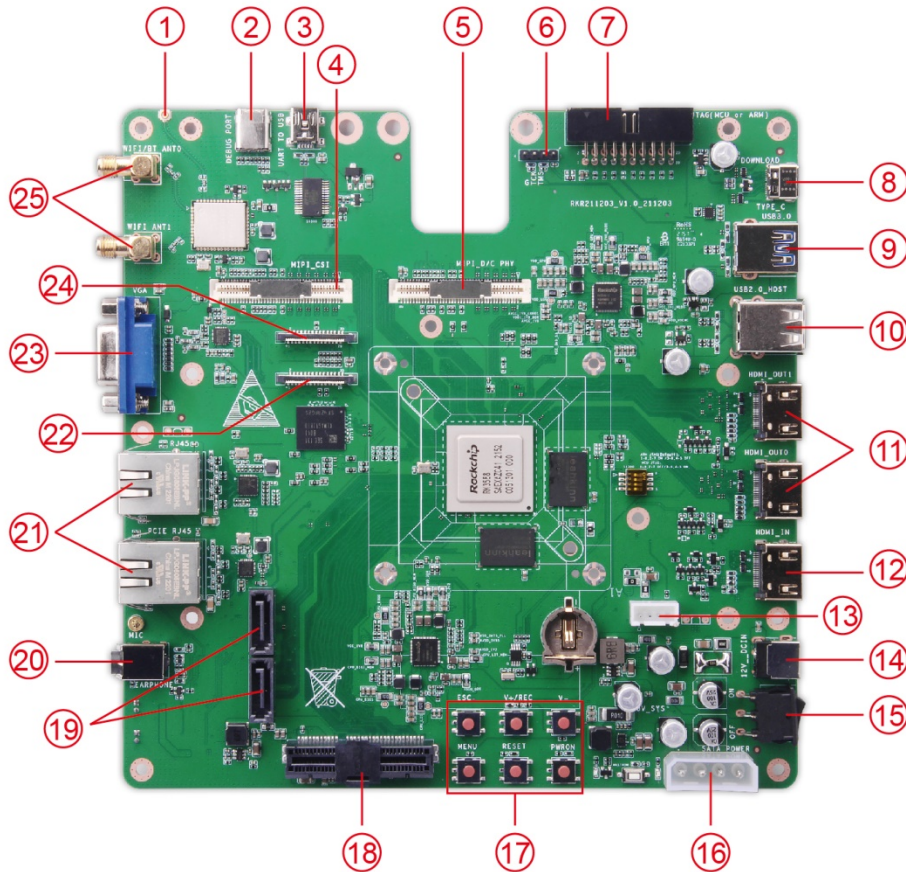
(VII) 网络: WIFI6(2.4G+5.8G), BT5.0, GIGA Ethernet * 2

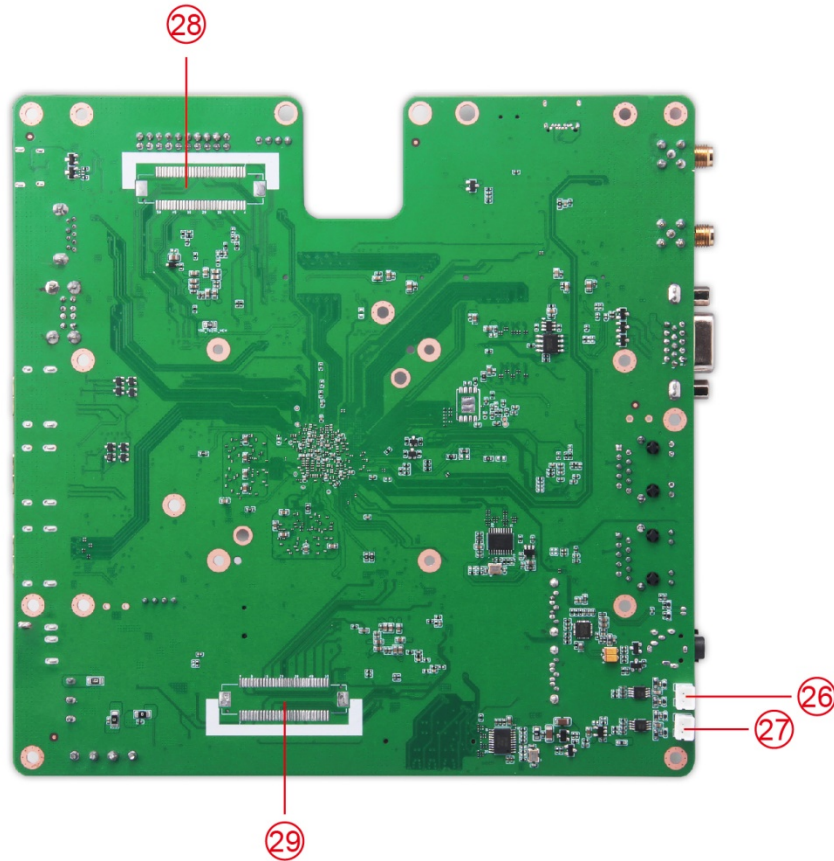
(VIII) 尺寸: 180mm * 180mm, Weight: 160g

(IX) 供电: Adapter 12V/2A

2. 产品图片

以下图片仅供参考，请以实物为主..

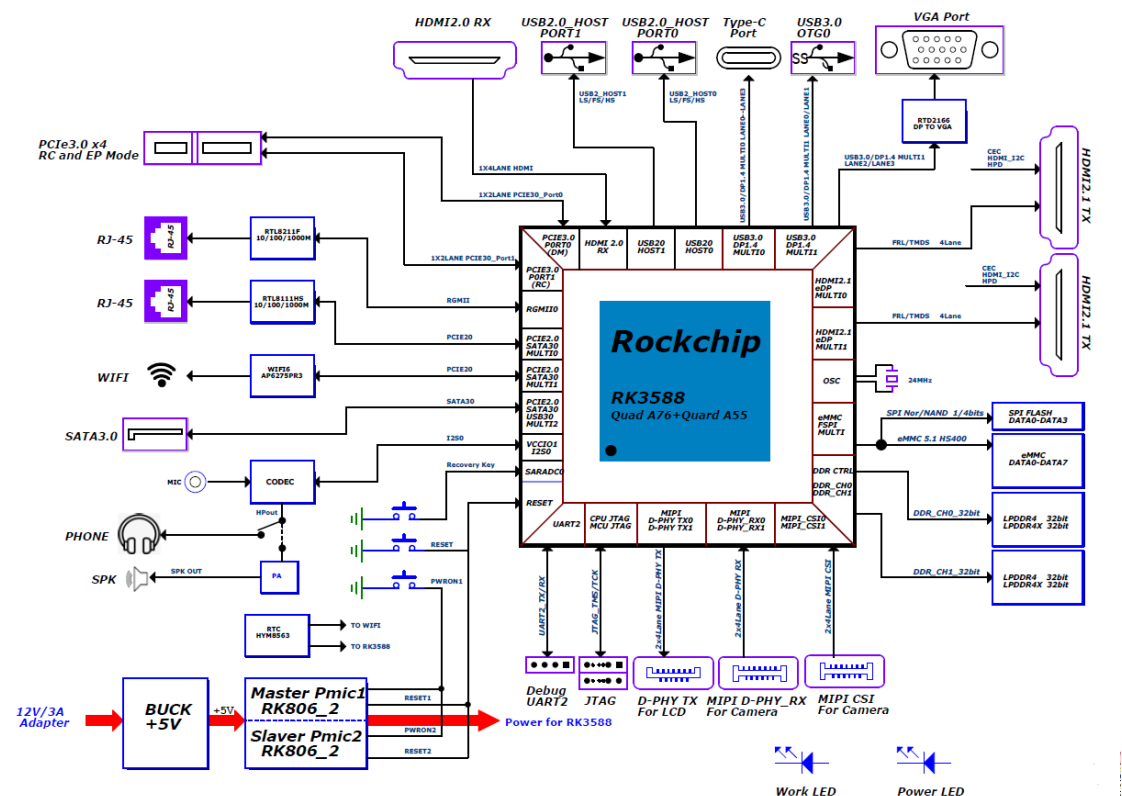




No.	Name	Description
1	Antenna	BT Antenna
2	Type-C	DEBUG
3	Mini USB	UART to USB
4	MIPI CSI	*1
5	MIPI D/C PHY	*1
6	JTAG1	MCU JTAG
7	JTAG2	CPU JTAG
8	Type-C	OTG
9	USB3.0	*1
10	USB2.0	*1
11	HDMI	HDMI OUT * 2
12	HDMI	HDMI IN * 1
13	FAN_POWER	*1 (12V)
14	DC IN	12V/2A
15	Power Switch	*1
16	SATA Power	*1
17	Key Array	*6 (V+/V-/MENU/RECOVERY/POWER/RESET)

18	PCIe	*1
19	SATA	*2
20	3.5mm Slot	*1 (Earphone)
21	RJ45	*2 (1000M)
22	MIPI CSI	*1
23	VGA	*1
24	MIPI DSI	*1
25	Antenna	WIFI Antenna
26	SPEAKER	*1
27	SPEAKER	*1
28	PMIC1 Power Test	*1
29	PMIC2 Power Test	*1

3.产品方框图



4. 产品性能

SOC		Rockchip RK3588	
市场区域		全球	
处理器规格		OS	Android 12.0/Linux
		CPU	Quad-core Cortex-A76 and Quad-core Cortex-A55
		GPU	Mali-G610 MP4 GPU
		LPDDR4	4GB (2/8/16/32GB 可选)
		EMMC FLASH	16GB (8/32/64/128/256G 可选)
网络	以太网	RJ45*2, 10/100/1000M	
	WiFi	WIFI/802.11.AX, MIMO	
	蓝牙	BT5.0	
电源适配器		DC12V / 2A	
尺寸		180mm * 180mm	
重量		160g	
定制服务		我司提供系统二次开发及定制应用程序服务.	

5. 支持格式

视频解码

- ☐ Real-time video decoder of MPEG-1, MPEG-2, MPEG-4, H.263, H.264, H.265, VC-1, VP9, VP8, MVC, AV1
- ☐ MMU Embedded
- ☐ Multi-channel decoder in parallel for less resolution
- ☐ H.264 AVC/MVC Main10 L6.0 : 8K@30fps (7680x4320)②

- ☐ VP9 Profile0/2 L6.1 : 8K@60fps (7680x4320)
- ☐ H.265 HEVC/MVC Main10 L6.1 : 8K@60fps (7680x4320)
- ☐ AVS2 Profile0/2 L10.2.6 : 8K@60fps (7680x4320)
- ☐ AV1 Main Profile 8/10bit L5.3 : 4K@60fps (3840x2160)
- ☐ MPEG-2 up to MP : 1080p@60fps (1920x1088)
- ☐ MPEG-1 up to MP : 1080p@60fps (1920x1088)
- ☐ VC-1 up to AP level 3 : 1080p@60fps (1920x1088)
- ☐ VP8 version2 : 1080p@60fps (1920x1088)
- ☐ 视频编码
 - ☐ Real-time H.265/H.264 video encoding
 - ☐ Support up to 8K@30fps
 - ☐ Multi-channel encoder in parallel for less resolution

6.使用注意事项

- a.相对湿度: $\leq 90\%$.
- b.使用温度范围: 0~ 60℃
- c.请勿挤压、扭曲、拆卸该产品.
- d.远离静电 .
- e.请勿接触水或者其他液体
- f.不要使用长连接线, 这可能会影响性能和图像质量