

深圳金亚太科技有限公司

Shenzhen Geniatech Co.,Ltd.

SPECIFICATION

MODEL:APC390K



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Website: www.geniatech.com

Address: Room 02-04, 10 / F, Block A, Building 8, Shenzhen International Innovation Valley, Dashi Road, Nanshan District, Shenzhen, Guangdong, China

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Revision History

VERSION	DATE	BOARD ID	PAGE	DESCRIPTION	AUTHOR
V1.0	2022/03/16	APC390K	4		

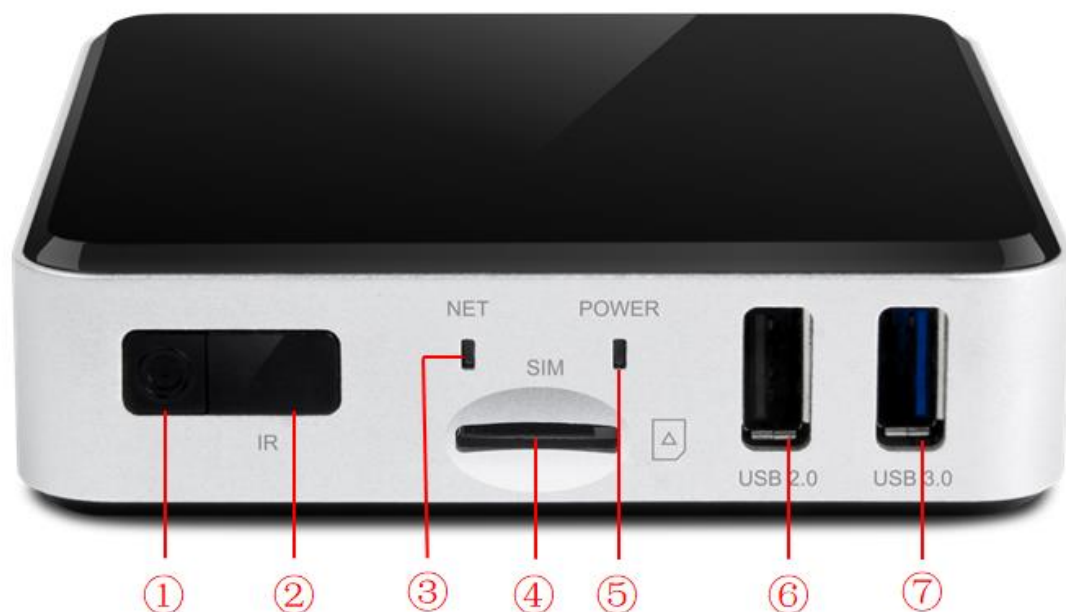
1. GENERAL DESCRIPTION

APC390K is an Android industrial BOX with below new features:

- (I) Rockchip RK3566 Quad-core ARM Cortex-A55 CPU @1.8GHz
- (II) Mali-G52 GPU, OpenGL ES 1.1/2.0/3.2, OpenCL 2.0 and Vulkan 1.1.
- (III) NPU supports INT8/INT16/FP16/BFP16 MAC hybrid operation
- (IV) Android 11.0 / Linux Debian OS
- (V) Support 2GB/4GB/8GB LPDDR4
- (VI) 8G~128GB eMMC flash, external expansion storage TF card (Max 512G)
- (VII) GTIOT (Support Z-WAVE / ZIGBEE / LoRa / LTE / GPS / BT5.0)
- (VIII) Support 4G networks (Optional)
- (IX) Built-in WiFi(2.4G/5.8G) /BT4.1 (BT5.0 Optional)
- (X) 10/100/1000M LAN interface
- (XI) 1 * HDMI In, 1 * HDMI Out, support 4K video play
- (XII) 2 * USB Type-A (1*USB3.0+1*USB2.0)
- (XIII) RS232 or IR blaster (Choose one of two)
- (XIV) WatchDog&RTC

2. PRODUCT OVERVIEW

Below picture is for reference only, please prevail in kind.





No.	Name	Description
1	Power Key	1 * Power key
2	IR reception	1 * IR reception
3	NET LED	1 * NET LED(Orange)
4	Micro SIM	1 * Micro SIM
5	Power LED	1 * Power LED(Red / Blue)
6	USB 2.0	1 * USB 2.0
7	USB 3.0	1 * USB 3.0
8	HDMI IN	1 * HDMI IN
9	LAN	1 * RJ45
10	HDMI OUT	1 * HDMI OUT
11	RS232	1 * RS232(or IR blaster)
12	DC IN	1 * DC IN

3.FEATURES

CHIPSET		Rockchip RK3566	
MARKET AREA		Global	
OSD LANGUAGE		English/Chinese (multi language OSD)	
Processor	OS		Android 11.0 / Linux Debian
	CPU		Quad-core ARM Cortex-A55 CPU @1.8GHz
	GPU		Mali-G52 GPU, OpenGL ES 1.1/2.0/3.2,OpenCL 2.0 and Vulkan 1.1
	NPU		supports INT8/INT16/FP16/BFP16 MAC hybrid operation
	LPDDR4		2GB (4GB/8GB Optional)
	EMMC FLASH		8GB (8~128G Optional)
NETWORK	Ethernet	RJ45, 10/100/1000M	
	WiFi	IEEE 802.11a/b/g/n/ac,2X2 MIMO	
	Bluetooth	BT4.1 (BT5.0 Optional)	
	3G/4G	1* Mini PCIE +1*Micro SIM(Optional)	
WatchDog&RTC		support	
GTIOT		Support Z-WAVE / ZIGBEE / LoRa / LTE / GPS / BT5.0(Optional)	
Interface	HDMI IN	1 * HDMI IN	
	HDMI OUT	1 * HDMI OUT	
	USB 3.0	1 * USB 3.0	
	USB 2.0	1 * USB 2.0(OTG)	
	LAN	1 * RJ45(LED)	
	SIM	1 * Mini pcie LTE(built-in) + 1 * Micro SIM	
	RS232	1 * 3.5mm jack (Choose one of two, default RS232)	
	IR blaster		
	DC IN	1 * DC IN	
	Power	1 * Power Key	
Adapter		DC12V / 1.5A (Φ5.5mm / φ2.1mm)	
Accessory		1 * Adapter (AC 100 ~ 240V 50/60Hz)	
Size(mm)		106*100*25	
Weight(g)		258	
Customizable GUI		We provided GUI customization and we have a vast collection of Launcher created by our R&D team for you to choose from.	

4.Support Formats

Media Remark	Codec	Remark
Video Codec	H.265	HEVC/MVC@L5.1 up to 4096x2304@60fps
	H.264	AVC/MVC@L5.1 up to 4096x2304@60fps
	VP9	VP9@L5.1 up to 4096x2304@60fps
	VP8	VP8@L5.1 up to 1920x1088@60fps
	VC1	VC1@level0~3,up to 1920x1088@60fps
	MPEG-4	up to 1920x1088@60fps
	MPEG-2	up to 1920x1088@60fps
	MPEG-1	up to 1920x1088@60fps
	H.263	up to 720x576@60fps
Video Encoder	H.264/AVC	BP/MP/HP@level4.2, up to 1920x1080@60fps
	H.265/HEVC	MP@level4.1, up to 1920x1080@100fps (4096x4096@10fps with TILE)
Picture	Jpg, png	
Audio	MP3,AAC,WMA, RM, FLAC, Ogg	

5.Precautions for use

- 1.Relative humidity: ≤85% .
- 2.CPU Operation temperature: 0~ 85℃
- 3.Storage temperature:-10 ~ +60℃
- 4.Operation temperature:0~ +60℃
- 5.Do not squeeze、distort or disassemble the PC.
- 6.Keep the Board away from static electricity .
- 7.Keep the Board away from water and other liquid.
- 8.Don't use long connect wires which may affect performance and image quality.