

深圳金亚太科技有限公司

Shenzhen Geniatech Co.,Ltd.

SPECIFICATION

MODEL:APC680



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Revision History

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

1. GENERAL DESCRIPTION

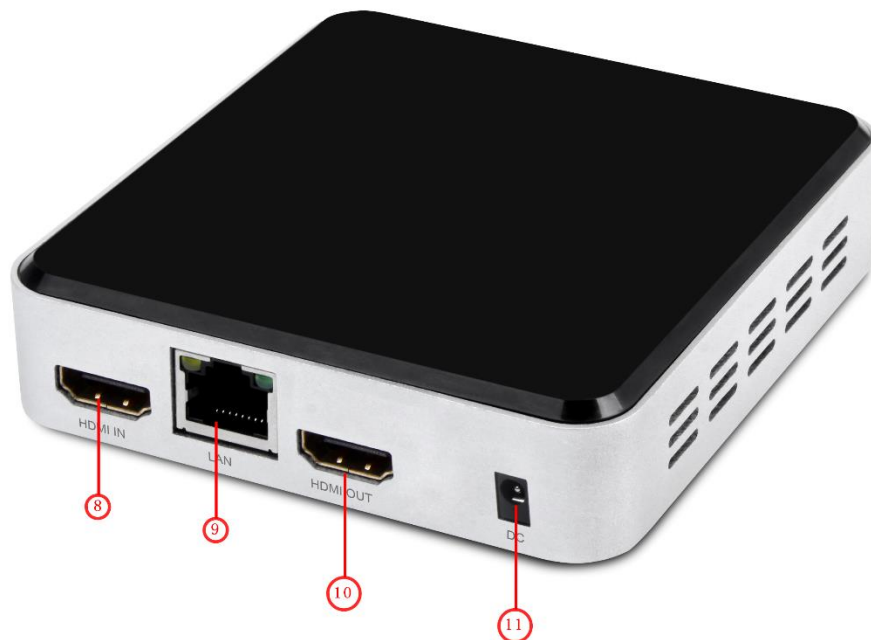
APC680 is an TV playing box with below new features:

- (I) VS680 Quad-Core Arm® Cortex® A73 processor with SecurityExtensions
- (II) OpenGL® ESTM 1.1/2.0/3.0/3.1/3.2/DirectFB/OpenCLrM 1.2 / Vulkan® 1.1.
- (III) NPU supports INT8/INT16/FP16/BFP16 MAC hybrid operation
- (IV) Android 12.0 / Linux ubuntu OS
- (V) Support 4GB/8GB/16GB 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) 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	DC IN	1 * DC IN

3.FEATURES

CHIPSET		VS680	
OSD LANGUAGE		English/Chinese (multi language OSD)	
Processor	OS		Android 12/Linux
	CPU		Quad-Core Arm® Cortex® A73 processor with SecurityExtensions
	GPU		Imagination™ PowerVR™ Series9XE GE9920 OpenGL® ESTM 1.1/2.0/3.0/3.1/3.2/DirectFB/OpenCL™ 1.2 / Vulkan® 1.1
	NPU		supports up to 6.75 TOPs(INT8)/1.69 TOPs(INT16) learning applications operation
	LPDDR4		4GB (4/8/16GB Optional)
	EMMC FLASH		16GB (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	
	IR	1*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	
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.Precautions for use

- 1.Relative humidity: $\leq 85\%$.
- 2.CPU Operation temperature: $0\sim 85^{\circ}\text{C}$
- 3.Storage temperature: $-10\sim +60^{\circ}\text{C}$
- 4.Operation temperature: $0\sim +60^{\circ}\text{C}$
- 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.