

深圳金亚太科技有限公司
Shenzhen Geniatech Co.,Ltd.

SPECIFICATION

MODEL:APC810

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Website: www.geniatech.com

Address: 18th Floor, GDC Building, No 9th, Gaoxin Middle 3rd Road, Nanshan, Shenzhen,
China

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Revision History

VERSION	DATE	BOARD ID	PAGE	DESCRIPTION	AUTHOR
V1.0	2019/01/11				Rocky

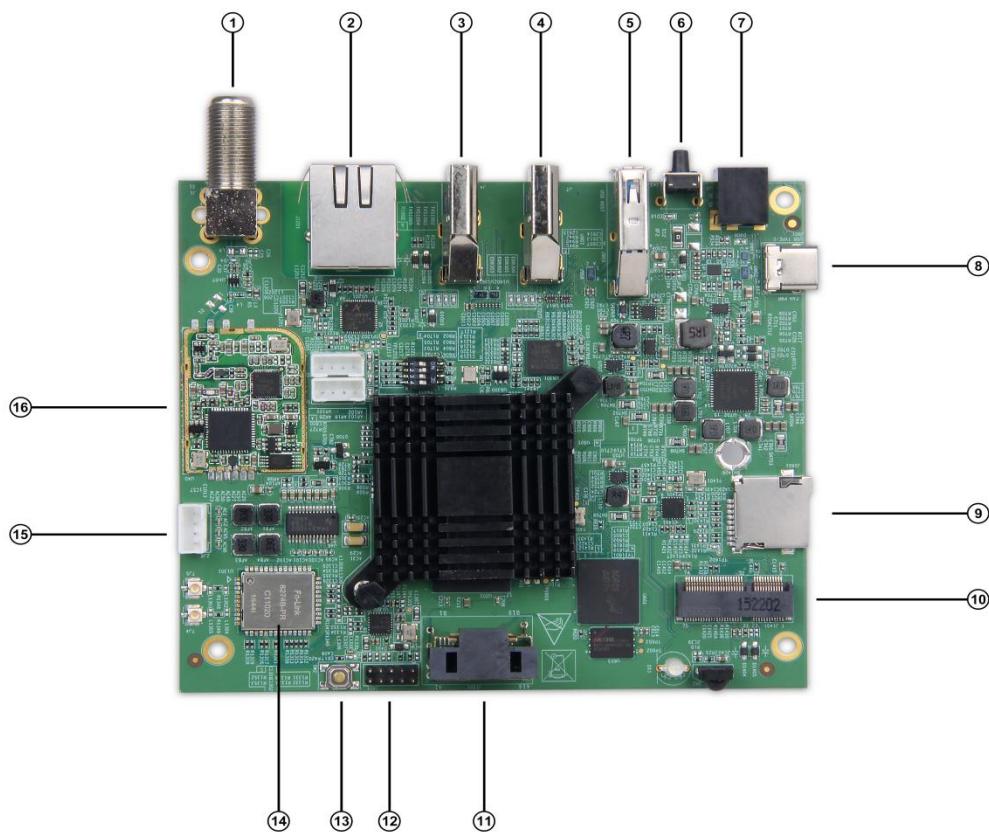
1. GENERAL DESCRIPTION

APC810 is an Android Customized Board with below new features:

- (I) NXP Quad Core Cortex A53 @1.5GHz and Cortex-M4 core , Android 9.0 OS and Linux
- (II) Support 3GB LPDDR4 , 16GB eMMC flash, external expansion storage SD card
- (III)Support mipi DSI/CSI interface
- (IV)support ATSC function (option)
- (V)one USB Type-C, SD Card , support program playback
- (VI) Built-in WiFi /BT , 1000M LAN interface
- (VII)one HDMI-out, one HDMI-in, support 4K video play.

2. PRODUCT PICTURE

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



No.	Name	Description
1	RF Jack	Mini RF Jack*1

2	RJ45	Ethernet 10/100/1000M
3	HDMI out	HDMI out*1, support HDMI 2.0A
4	HDMI in	HDMI in*1, support HDMI 1.4A
5	USB	USB3.0 *1
6	Reset Button	Reset Button*1
7	DC IN	12V
8	USB Type-C	USB Type-C *1
9	SD	SD card *1(max 64GB)
10	M.2 interface	Support M.2 (SATA) HDD
11	Mipi interface	Support mipi LCD/AMOLED
12	Debug Jack	Debug Jack *1
13	Power Button	Power Button*1
14	WIFI	Support WIFI/802.11.AC, 2X2 MIMO
15	Speaker Jack	4pin Speaker Jack *1
16	ATSC	ATSC Module *1

3.FEATURES

CHIPSET		NXP i.MX 8M Quad Core CPU	
MARKET AREA		Global	
OSD LANGUAGE		English/Chinese (multi language OSD)	
Processor	OS	Android 9.0	
	CPU	Quad Core Cortex A53 @1.5GHz and Cortex-M4 core	
	GPU	GC7000, support Open GL/ES 3.1, Open GL 3.0, Open CL 1.2	
	LPDDR4	3GB	
	EMMC FLASH	16GB (8G/32G Optional)	
Can support Panel	Panel type	TFT LCD/AMOLED	
	Interface	mipi	
	Resolution(Max)	1920*1080	
	Voltage	3.3 V	
NETWORK	Ethernet	RJ45, 10/100/1000M	
	WiFi	WIFI/802.11.AC, 2X2 MIMO	
	Bluetooth	BT4.1	
	3G/4G	Not support	
Standby Power		<0.5W	
Interface	SD	SD card *1(max. 64GB)	
	HDMI	HDMI out*1, HDMI in*1	
	USB Host	USB Host 2.0*1	
	USB Type-C	USB Type-C*1	
	DC IN	DC IN*1	

Master Carton	118*105*22mm , 1pcs/carton
Adapter	DC12V / 3A
Accessory	Adapter*1
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.
Rich Applications	There are over 1 million applications in the market, and supports most famous applications like: Youtube, Facebook, and Twitter, etc..

4.Support Formats

Media Remark	Codec	Remark
Video	MPEG-2	up to MP : 1080p@60fps (1920x1080)
	MPEG-4	up to ASP level 5 : 1080p@60fps (1920x1080) GMC(global motion compensation)not supported
	H.263	1080p@60fps(1920x1080)
	H.264	up to HP level 5.1 : 4kp@30fps (3840x2160)
	H.265	4K@60fps (4096x2304)
	VC-1	up to AP level 3 : 1080p@30fps (1920x1080)
	VP9	4k@60fps (4096x2304)
Audio	Support 6x I2S/SAI (20+channel , one channel 32bit@384 KHz) ; SPDIF Tx/Rx ; DSD512	
Photo	Jpeg, jpg	

5.Precautions for use

- 1.Relative humidity: ≤80% .
- 2.Storage temperature: -10 ~ 100 °C
- 3.Operation temperature: 0~ 95°C
- 4.Do not squeeze ,distort or disassemble the PC.
- 5.Keep the Board away from static electricity .
- 6.Keep the Board away from water and other liquid.
- 8.Don't use long connect wires which may affect performance and image quality.