

深圳金亚太科技有限公司

Shenzhen Geniatech Co.,Ltd.

SPECIFICATION

MODEL:APC3576-V01



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Revision History

VERSION	DATE	BOARD ID	PAGE	DESCRIPTION	AUTHOR
V1.0	2024/12/11				

1. GENERAL DESCRIPTION

APC3576 is an computing box designed based on RK3576 processor with rich peripheral resources and complete interfaces, RK3576 is a low power, and integrates quad-core Cortex-A72 and quad-core Cortex-A53 with separately NEON coprocessor, built-in AI accelerator NPU, can provide 6TOPs of computing power. It supports network ports, Bluetooth, Wi-Fi, audio/video, camera, SSD hard drive, etc. It supports local communication such as RS232, UART, etc., and has video output interfaces. Suitable for intelligent NVR, cloud terminal, industrial control, information release terminal, multimedia advertising machine and other scenes. It is fully functional and convenient:

- (I) Support 32 channels 1080P 30FPS, support 8K video editing and decoding.
- (II) Supports LPDDR up to 16GB and EMMC up to 256GB..
- (III) Support 4K HDMI Output and DP Out(Through Type-C).
- (IV) Support TYPE-C/USB3.0/GPIO/RS232/RS485 peripheral interfaces.
- (V) Support SATA3.0/SPI/ I2C/UART/USB3.0 and other internal expansion
- (VI) Support Gigabit wired network port, and at the same time can support 2.4G/5G dual-band wifi and Bluetooth.
- (VII) Support multiple operating systems: Android14
- (VIII) Built-in watchdog and RTC battery can support 7*24 hours stable operation.

2. PRODUCT PICTURE

- (1) Below pictures are for reference only, please prevail in kind.



Front view



Back View

Shell material: Aluminum profile

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3.FEATURES

CPU	Rockchip RK3576, Cortex-A72 and quad-core Cortex-A53
GPU	Mali-G52 MC3
RAM	4GB LPDDR4(8/16GB optional)
ROM	32GB EMMC(64GB/128GB/256 optional)
Network	1000M Ethernet / 2.4GHz/5GHz 802.11 a/b/g/n/ac/ax / BT5.2 or above
I/O	USB3.0 x 1/TYPER-C x 1/HDMI OUT x 1/RS-232 x 1/ RS485*1/GPIO x 4/IR IN
OS	Android 14
Power	Adapter 12V/2A
Appearance	160 mm *125.5 mm *48mm
Environment	Operation temperature: commercial (0°C~ +50°C)/ Extended commercial (-40 °C ~ 85°C), 10%≤Relative humidity≤90%

4.Support Formats

Video Decoder

- Supports video decoder of H.264, H.265, VP9, AV1 and AVS2
- MMU Embedded
- Multi-channel decoder in parallel for less resolution
- H.264 AVC/ Main10 L5.2 :8K@30fps (7680x4320)
- VP9 Profile0/2 L6.0 :8K@60fps (7680x4320)
- H.265/HEVC Main10 L6.0 :8K@60fps (7680x4320)
- AVS2 Profile0/2 L8.2.120 :8K@60fps (7680x4320)
- AV1 Main 10 L6.0 :4K@60fps (3840x2160)

Video Encoder

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- Real-time H.265/H.264 video encoding
- Support up to 4K@60fps
- Multi-channel encoder in parallel for less resolution

5.Precautions for use

- 1.Storage temperature: commercial (-0°C ~ +50°C)/ Extended commercial (-40 °C ~ +85°C)
- 2.Do not squeeze、 distort or disassemble the PC.
- 3.Keep the Board away from static electricity .
- 4.Keep the Board away from water and other liquid.
- 5.Don't use long connect wires which may affect performance and image quality.