MediaTek Genio» 510



deal Applications

Designed for products suitable for fanless enclosure designs and off-grid power solutions.

- Smart Retail: Digital signage, desktop POS
- Industrial: Edge AI, IoT gateway, HMI
- Smart Home: Fitness, smart home appliances

Superb Edge Performance and Efficiency

High-performance TSMC N6 (6nm) SoC featuring hexa-core CPU, graphics engine, and AI multi-processor.

- 2X Arm Cortex-A78 CPUs
- 4X Arm Cortex-A55 CPUs
- Arm Mali-G57 MC2
- Quad-channel LPDDR4X



performance

Versatile 3.2 TOPS AI multi-processor useful for Deep Learning, Neural Network acceleration, and Vision applications.

- MediaTek DLA + VP6
- MediaTek NeuroPilot SDK
- INT8, INT16 + FP16 capable



Android and Linux ready

edge applications

- Android
- Yocto Linux
- Ubuntu

Mainstream edge-AI IoT platform for smart home, interactive retail, industrial and commercial applications. Provides highly responsive edge processing, advanced multimedia, multiple OS support and more.

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Adv	ance	d Mu	ıltim

Ideal for streaming video services, video conferencing, and visually interactive applications.

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- 4K60+4K30 Dual Display
- Dual display support
- Video encoding up to 4K 30fps
- Video decoding up to 4K 60fps
- 32MP @ 30fps camera ISP

Platform Security & Longevity

MediaTek provides secure platforms ready for Enterprise and Industrial deployments.

- Arm SystemReady compliance
- Arm PSA certification for security
- 10-year supply commitment
- Consumer (-20°C to 95°C Tj) and Industrial (-40°C to 105°C Tj) support

Connectivity & Interfaces

Expand the platform to meet application specific needs via common interfaces and MediaTek's wireless portfolio.

- PCI-Express
- USB
- Gigabit Ethernet
- Optional Wi-Fi 6 / 5G

