MediaTek Genio» 1200

Designed for demanding AI and performance-centric IoT applications, the MediaTek Genio 1200 is a premium AIoT SoC that provides best-in-class CPU, graphics and AI performance, support for the latest multimedia standards, multiple 4K displays and exceptional power efficiency in a **6nm-class chip**.

Empowering The Edge

The Genio 1200 is an extremely capable edge computing platform that offers powerful, multitasking performance for a wide variety of AIoT applications.

- Advanced Smart Home Appliances
- Human Machine Interface (HMI)
- 4K/Multi-Display Audio/Video applications
- Industrial IoT
- Robotics

Wireless Connectivity

Using MediaTek's wide array of wireless connectivity add-in chips, device makers can add personal area, local area, or national cellular network access.

- Wi-Fi 6 and Bluetooth 5.2 combo solutions
- 5G modem module

Powerful Performance

A highly capable mix of premium performance CPUs, powerful graphics engine, dedicated audio and AI processors, and capacious superfast memory.

- Octa-core CPU with 4X Arm Cortex-A78
- Arm Mali-G57 MC5 GPU
- LPDDR4X-4266 up to 16GB
- Hi-Fi 4 Audio DSP
- Dual-core AI Processor (APU)

Flexible OS, Software And SDK

Whether the embedded platform is for intelligent autonomy or HMI-use, support for powerful Open OS' and MediaTek's NeuroPilot SDK offers easy development environments, rich API options and responsive experiences in user-centric scenarios.

- Android
- Yocto Linux
- Ubuntu
- NeuroPilot SDK

Exceptionally Power-Efficient Chip

Exceptionally light on power, allowing device makers to embrace a wider range of application opportunities, including battery-powered devices.

- TSMC N6 production process (6nm-class)
- Power consumption <8W
- Integrated PMIC

Premium Multimedia

Drive multiple 4K displays with touchscreens, process 4K display input, and use extremely high detail cameras.

- Dual display output up to 4K60+4K60
- Video encoding up to 4K 60fps with HEVC
- Video decoding up to 4K 90fps
- AV1 hardware decoding engine
- HDMI 2.0 Receiver (HDMIRX)
- 48MP @ 30fps single camera or 16MP+16MP @ 30fps dual camera

Highly Capable AI

The in-chip, dual-core AI processor enables deep learning (DL), Neural Network (NN) acceleration, and Computer Vision (CV) applications.

- Dual-core MediaTek AI Processor (APU)
- INT8, INT16 and FP16 support
- Ideal for facial recognition, object identification, scene analysis, optical character recognition and much more

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