MediaTek Dimensity 9300

All Big Core CPU

World's first flagship smartphone chip to use all big cores for extreme performance.

- 4X Cortex-X4 CPU up to 3.25GHz
- 4X Cortex-A720 CPU up to 2.0GHz
- 15% increase in single-core performance
- 40% increase in multi-core performance

Advantages in Power Efficiency

Precise CPU management for superior power efficiency.

- Up to 33% multi-core power saving vs previous gen CPU
- 3rd gen TSMC 4nm chip production
- 2nd gen thermally optimized IC design and package

Generative AI Engine with Private, Personalized AI

New 7th Gen APU brings hardware-accelerated Generative AI into smartphones.

- 8x faster transformer-based generative AI
- 2x faster integer and floating-point compute improvement
- 45% more power efficient
- Up to 33 billion parameters
- Exclusive hardware-accelerated memory compression technology
- First to support on-device LoRA Fusion

Superior Security

Introducing a user privacy-focused security design and secure smartphone ecosystem.

- Secure Processor + HWRoT
- New Arm MTE Technology

High-Performance 12-core GPU

Fast raytracing and console-level technologies on the Immortalis-G720 ensure incredibly smooth gameplay.

- 46% peak performance boost
- 40% increase in power savings
- 40% memory BW savings in geometry-heavy games
- 46% improvement in HW raytracing performance
- Console-level global illumination effects

Next-Gen Cinematic Video Capture

Our industry-leading video capture technologies just got even better.

- AI Semantic Analysis Video Engine
- 4K cinematic mode with depth of field
- 100% pixel-level autofocus + dual-lossless zoom
- 3-Microphone HDR audio recording

AI-Display: Flagship Smart TV tech meets Smartphones

We are bringing many of our flagship technologies from the big screen to the small screen.

- World's first AI-depth engine display
- Support Google Ultra HDR
- 10% power savings with display low power technology

i.mediatek.com/dimensity-9300

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