**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 GPU 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

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