

# MediaTek Dimensity 8400

**First All Big Core Chip for Premium Smartphones**

## Epic All Big Core CPU

We're extending our global leadership in smartphone chips and upgrading another tier of smartphones with our innovative all big core design.

- World's first all big core SoC for premium segment
- 8x Arm Cortex-A725 up to 3.25GHz
- +41% multi-core performance\*

## Exceptional Power Efficiency

Leveraging our industry-leading power management expertise, the Dimensity 8400 precisely controls the performance and power curve of its all big core CPU design, resulting in class-leading power efficiency.

- -44% peak power use\*
- Up to +100% L2 cache\*
- +50% L3 cache\*
- +25% SLC cache\*

## Premium Graphics Engine

The Arm Mali-G720 MC7 GPU provides immense gaming performance, plus MediaTek Frame Rate Converter (MFRC) advantages.

- >24% higher peak performance\*
- -42% power use\*
- Higher power efficiency with MACT
- Network Observation System (NOS) enables 5G power and data savings
- Touch latency optimization

[www.mediatek.com/dimensity-8400](http://www.mediatek.com/dimensity-8400)

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## Most Powerful Generative AI NPU in its Class

The MediaTek NPU 880 offers state-of-the-art Gen-AI capabilities for translation, rewriting, contextual reply, AI recording, media generation, and more.

- +20% faster INT/FP operation\*
- +18% power efficiency\*
- +33% in LLM text generation (Baichuan 4B)\*
- +21% in Stable Diffusion v1.5\*

## Imagiq 1080: Flagship-grade Image Quality

Achieve exceptional photography and video record quality, with flagship-grade HDR image quality that noticeably exceeds alternative platforms.

- In-sensor zoom with 100% PDAF
- HDR video recording throughout the entire zoom range
- -12% power use in 4K HDR video capture\*

## New 5G Advanced Modem

MediaTek's 5G-A modem is ready for markets with the next-generation of cellular networks.

- Up to 3CC-CA
- Up to 5.17Gbps performance
- UltraSave3.0+

\* Compared to previous generation Dimensity platform

**MEDIATEK**