MediaTek Dimensity 8300

Faster Apps, Superior Experiences

The Dimensity 8300 introduces Arm's latest v9 architecture and delivers flagship-grade memory and storage to premium 5G smartphones.

- Octa-core CPU with 4X Arm Cortex-A715 and 4X Cortex-A510
- Arm Mali-G615
- LPDDR5X up to 8533Mbps
- UFS 4.0 + MCQ
- Ultra-efficient 4nm-class chip

Gen-AI In Your Hand

The new MediaTek APU 780 is more capable than ever; specially engineered for the new generation of Generative AI apps accelerated directly on smartphones.

- 8x faster transformer-based generative AI
- 2x faster integer and floating-point compute improvement
- Up to 10 billion parameters
- 3.3x AI performance (AI Benchmark v5)

MediaTek HyperEngine

Full speed gaming that lasts for longer. Exclusive frame rate control algorithms measure the smartphone's temperature and performance needs in real-time, yielding smoother FPS for the best user experience.

- MediaTek Adaptive Game Technology 2.0
- MediaTek Modem Express 2.0
- VRS Tier2 Support

MediaTek Imagiq 980 Cameras

Capture true-to-life 4K60 HDR video, with incredible detail and even greater power efficiency than previous generations.

- Up to 10% more power-efficient 4K60 video capture
- Flagship-grade IQ on simultaneous dual camera 4K HDR video capture
- Flagship-grade video noise reduction
- AI-Color Content Smart ISP

MediaTek MiraVision 880 Display & Video

New AI Region PQ now distinguishes regions within each video scene to selectively adjust contrast and sharpness through AI-Segmentation.

- MediaTek AI Region PQ for video
- 120Hz WQHD+ / 180Hz Full HD+ display support
- HDR10+ Adaptive support
- Smart BluLight Defender
- 4K AV1 media decoding

Premier Connectivity Speeds

Featuring the latest 3GPP Release-16 standard 5G modem with scenario-specific optimizations.

- MediaTek 5G UltraSave 3.0+
- Up to 3CC-CA sub-6GHz
- Up to 5.17Gbps 5G DL speeds
- Wi-Fi 6E 160BW — 2X bandwidth vs previous gen
- MediaTek Wi-Fi/Bluetooth hybrid coexistence technology
- Smart enhancements boost downlink speeds by 20% in transit scenarios

5G

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i.mediatek.com/dimensity-8300

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