

MediaTek Dimensity 800

Incredible Experiences, Leading Features,
Remarkable Performance

MEDIATEK

The MediaTek Dimensity 800 leads its segment with a fully integrated 5G NR modem in the tiny 7nm chip. Featuring the latest MediaTek 5G UltraSave, plus essential Carrier Aggregation, full compatibility with NSA and SA network architectures, and support for VoNR services are just some of its comprehensive feature set.

Its processing powerhouse includes four high performance Arm Cortex-A76 cores operating up to 2GHz within its octa-core CPU, giving more multi-core performance versus alternatives. With flagship-class IP in its Arm Mali-G57 MC4 GPU, plus MediaTek HyperEngine 2.0 enhancements, the Dimensity 800 provides the best-in-class gaming experiences with whole smartphone enhancements covering networking optimization, touchscreen responsiveness, and picture quality improvements.

Blur-busting 120Hz displays deliver a faster response and smoother visuals, while MiraVision video technologies amplify quality of video playback using MediaTek's AI-PQ and HDR Composer (SDR to HDR).

The AI processor and multi-core, HDR-ISP enable cutting-edge photo and video capture technologies such as multi-frame 4K HDR video and AI-camera enhancements that provide excellent results, every time.

MediaTek MiraVision	<ul style="list-style-type: none">AI-PQMiraVision Enhanced HDR10+ Video PlaybackHDR Composer (SDR to HDR)
MediaTek Imagiq	<ul style="list-style-type: none">Multi-frame 4K video HDRHDR-Native, Multi-Core ISPMulti-Camera Smartphones
MediaTek HyperEngine 2.0 Gaming Technology	<ul style="list-style-type: none">Network Engine 2.0Rapid Response Engine 2.0Picture Quality Engine 2.0Resource Management Engine 2.0
MediaTek 5G UltraSave	<ul style="list-style-type: none">MediaTek 5G UltraSave Network Environment DetectionMediaTek 5G UltraSave OTA Content AwarenessDynamic BWPC-DRX (Connected Mode DRX)

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CPU	Octa-Core: 4x ARM Cortex-A76 up to 2GHz; 4x ARM Cortex-A55 up to 2.0GHz
Memory	LPDDR4x up to 16GB, 2133MHz
GPU	Arm Mali-G57 MC4
AI	MediaTek APU 3.0
Camera	64MP @ 30fps or 32+16MP @ 30fps
Video Decoding	4K 60fps, H.264/265/VP9
Video Encoding	4K 30fps, H.264/265
Display	2520 x 1080 (Full HD+) @ 21:9, up to 120Hz
Storage	UFS 2.1
Modem	5G 2CC, NSA & SA, Sub-6GHz
Connectivity	Wi-Fi 5 (802.11 a/b/g/n/ac), Bluetooth 5.1, GPS+Glonass+Beidou+Galileo