

MediaTek Dimensity 1080

Faster Speeds, Bigger Pictures, Incredible 4K HDR Video for Streamers



CPU / GPU

Faster performance, smoother games

The powerful CPU and graphics engine provide exceptional performance, rapid App response, and smooth gameplay that lasts longer than ever.

- Octa-core with 2x Arm Cortex-A78 CPUs up to 2.6GHz
- Power-optimized Arm Mali-G68 GPU
- High-end LPDDR5 memory & UFS 3.1 storage

Exceptional power-efficiency

A chip with a highly power-efficient design. Device makers can create slim and light 5G smartphones with incredible performance that last longer than ever, even for demanding users.

- Exceptionally efficient 6nm-class chip



CAMERAS

Catch the moment in more detail than ever

Capture incredible details in photos; record and stream 4K HDR video anytime day or night. Premium noise reduction technologies let you simply point and shoot.

- Up to 200MP main camera
- Hardware-accelerated 4K HDR recording engine

AI for next-gen experiences

A dedicated, multi-core AI processing unit allows cool camera tricks like soft background and selective focus from a single camera – ideal for selfie vlogs, fun shorts, or conference calls.

- MediaTek APU 3.0



DISPLAY

MediaTek Intelligent Refresh Rate Displays

Displays that react with super-fast refresh rates only when the game or app needs it. Get hands-on with a smoother display experience, without the hit on battery life.

- Up to Full HD+ 120Hz
- Energy saving intelligent display speeds



CONNECTIVITY

Power Efficient Connectivity

Connectivity that's all built into the chip so it works far more power-efficiently than other multi-chip designs, extending everyday battery life.

- 5G, Wi-Fi 6, Bluetooth and GNSS all built in
- 2CC-Carrier Aggregation inc. low + mid band FDD+TDD
- Up to 2.77Gbps downlink
- MediaTek 5G UltraSave power efficiency enhancement suite
- Dual 5G SIM (5G SA + 5G SA) with VoNR



GAMING

MediaTek HyperEngine 3.0 – Networking Engine

Keep on gaming even when you receive a call, and when you're travelling. Tether a friend's device and play together online for 33% longer than other chip designs.

- Game on SIM 1, Call on SIM 2
- 5G HSR mode for gaming
- Super Hotspot Power Saving



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SPECIFICATIONS

Process	TSMC N6 (6nm-class)
CPU	2x Arm Cortex-A78 up to 2.6GHz 6x Arm Cortex-A55 up to 2.0GHz
GPU	Arm Mali-G68 MC4
Cameras	200MP Max 4K HDR Video Capture Engine
Display	120Hz Full HD+ with HDR10+ MediaTek Intelligent Refresh Rate
Connectivity	Wi-Fi 6 (2x2) Bluetooth 5.2 Global GNSS
Memory & Storage	Up to LPDDR5 Up to UFS 3.1 2-lane
Modem	5G NR 2CC Carrier Aggregation (120MHz) + Mixed Duplex TDD/FDD Dual 5G SIM (5G SA + 5G SA) & Dual VoNR MediaTek 5G UltraSave 1.0

