

MediaTek Dimensity 9000+

Even More Speed. Same Incredible Power Efficiency.

Our flagship chip is now even faster. The higher clocked Arm Cortex-X2 CPU and Arm Mali-G710 MC10 graphics engine raise performance even further!

- Our fastest ever Arm Mali-G710 MC10 graphics engine
- Ultra-Core - 1x Arm Cortex-X2 at 3.2GHz
- Super-Cores - 3x Arm Cortex-A710 up to 2.85GHz
- Efficiency Cores - 4x Arm Cortex-A510
- LPDDR5X up to 7500Mbps – 20% more power efficient than LPDDR5
- Industry-leading TSMC N4 (4nm-class) chip production process

MediaTek Imagiq 790

The flagship 18-bit HDR-ISP can record HDR video on three cameras simultaneously, ensuring you never miss anything!

- Incredibly powerful 9Gpixel/s ISP
- Simultaneous triple camera HDR video recording
- 320MP camera support for smartphones
- Record 4K HDR video with powerful AI-noise reduction
- Exceptionally fast AI-noise reduction for photo capture

MediaTek APU 590

5th Generation AI engine achieves maximum effective performance in AI-multimedia, -gaming, -camera, and social video experiences.

- Up to 4X power efficiency upgrade vs last generation
- End-to-end upgrade maximizes efficiency

MediaTek MiraVision 790

The latest HDR support, the fastest displays with intelligent technologies that ensure excellent power-efficiency, and the best visual enhancements in every app, media stream and game.

- New HDR10+ Adaptive video support
- 144Hz WQHD+ or 180Hz Full HD+ displays
- MediaTek Intelligent Display Sync 2.0
- Wi-Fi Display up to 4K60 HDR10+

WELCOME TO THE
NEXT LEVEL OF
INCREDIBLE



MediaTek HyperEngine 5.0

Exclusive gaming technologies that ensure longer lasting, amped visuals with smoother gameplay.

- AI-enhanced variable rate shading technology (AI-VRS)
- Raytracing development tools available for game developers
- Hybrid AI-GPU Super Resolution for gaming for Android
- MediaTek Wi-Fi Fast Path for lower latency connections
- Wi-Fi / Bluetooth Hybrid Coexistence 2.0

Leading 3GPP Release-16 5G Smartphone Modem

Extremely powerful sub-6GHz performance with latest 3GPP Release-16 standard technology 5G modem that's built directly into the chip.

- Latest 3CC Carrier Aggregation (300MHz) support
- Up to 7Gbps super-fast downlink
- MediaTek 5G UltraSave 2.0 power-saving enhancement suite
- R16 UL Tx Switching for both SUL and NR UL-CA based connections
- New Dual SIM Dual 4G/5G Active (DR-DSDA)

Latest Connectivity & Wireless Audio

Empowered connectivity the very latest Wi-Fi, Bluetooth and GNSS technologies.

- Wi-Fi 6E 2x2 (BW160) with latest tri-band 2.4GHz, 5GHz and 6GHz support
- Bluetooth 5.3 with Bluetooth LE Audio-ready technology
- Dual-Link True Wireless Stereo Audio
- Beidou III-B1C GNSS support

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SPECIFICATIONS

Process	TSMC N4 (4nm-class)
CPU	1x Arm Cortex-X2 at 3.2GHz 3x Arm Cortex-A710 up to 2.85GHz 4x Arm Cortex-A510
GPU MediaTek HyperEngine 5.0	Arm Mali-G710 GPU MC10
APU	MediaTek APU 590
Camera MediaTek Imagiq 790	18-bit HDR-ISP fusion up to 9Gpixel/s Up to 320MP Primary Camera 3-exposure HDR Videography
Display MediaTek MiraVision 790	144Hz WQHD+ / 180Hz FullHD+ MediaTek Intelligent Display Sync 2.0
Audio	Bluetooth LE Audio-ready technology with Dual-Link True Wireless Stereo Audio
Connectivity	Wi-Fi 6E 2x2 (BW160) and Bluetooth 5.3 Wi-Fi/Bluetooth hybrid coexistence design
Memory	LPDDR5X up to 7500Mbps
Modem	3GPP Release 16 5G modem 5G NR 3CC Carrier Aggregation (300MHz) up to 7Gbps MediaTek UltraSave 2.0
Customization	Dimensity 5G Open Resource Architecture ready

