

# All you need to know about the Dimensity 8250, MediaTek's latest mid-range chipset

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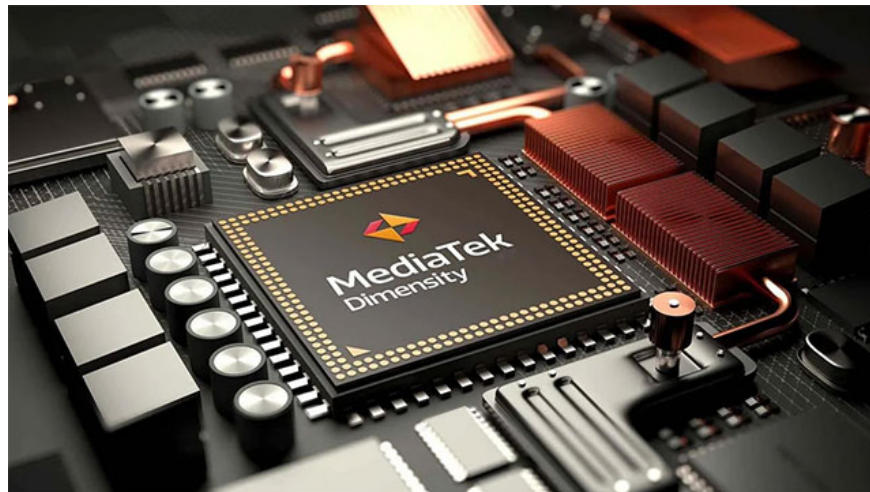
The competition between MediaTek and Qualcomm has been and continues to be at height. Both companies have been competing fiercely for a long time to produce the best possible chipsets and secure their positions in more product segments. MediaTek's Dimensity 8250 is a prime example of this strategy.

Although not yet widely available on too many smartphones, MediaTek's SoC model is attracting attention thanks to its impressive features, performance and power saving advantages. Here is what you need to know about MediaTek Dimensity 8250 before deciding to buy a smartphone with this chip.

## MediaTek Dimensity 8250 specifications

Dimensity 8250 is one of MediaTek's processors developed using 4nm manufacturing technology. This ensures a chip that meets the energy efficiency aspect as well as modern flagship smartphone processors, while performing absolutely not bad at all.

MediaTek Dimensity 8250 owns a CPU clock of 3.1 GHz, including 8 cores: 1x Arm Cortex-A78 3.1GHz main core, 3x Arm Cortex-A78 3.0GHz performance cores and 4x Arm Cortex- energy saving cores. A55 2.0GHz.



Taking care of image processing is the integrated Arm Mali-G610 MC6 GPU. This graphics processor has previously been used in smartphones such as Xiaomi 13T, Tecno Camon 30 Pro, Vivo V30 Pro, and is highly appreciated for its ability to deliver ideal performance, especially when gaming.

For RAM, the Dimension 8250 uses LPDDR5X memory and for storage, supports UFS 3.1 technology, which means high read and write speeds. The chipset can support displays with refresh rates of up to 180Hz at FHD+ resolution, or up to 120Hz at QHD+ resolution, delivering smooth scrolling and more responsive visuals.

When it comes to camera performance, the Dimension 8250 once again impresses. The processor supports 4K (3840 x 2160) video at 60 FPS, can handle up to 320 megapixel camera sensors, and supports simultaneous 32+32+32MP triple camera setups.

The chipset also supports modern connectivity technologies such as Wi-Fi 6E, Bluetooth 5.3 and 5G. Below is the full specs table of MediaTek Dimensity 8250:

Category	Parameter
<b>CPU</b>	
Processor	1x Cortex-A78 3.1GHz, 3x Cortex-A78 3.0GHz, 4x Cortex-A55 2.0GHz
Cache	4MB L3
Core	8 Cores
Bit architecture	64-bit
<b>Memory and storage</b>	
Memory type	LPDDR5 (Four channels)
Maximum memory speed	6400Mbps
Storage type	UFS 3.1
<b>Connect</b>	
Mobile technology	2G-5G, CDMA2000, EDGE, GSM, TD-SCDMA, WCDMA
Specific functions	SA & NSA modes, 4×4 MIMO, 256QAM, VoNR/EPS fallback
Highest downlink speed	4.7Gbps
GNSS	GPS, BeiDou, Glonass, Galileo, QZSS, NavIC
WIFI	Wi-Fi 6E
Wi-Fi antenna	2T2R
Bluetooth	5.3
<b>Camera</b>	
Max camera sensor	320MP / 32+32+32MP
Maximum video recording resolution	4K60
Camera features	HDR-ISP, Video HDR, Video Bokeh, EIS, AI features
<b>Graphics</b>	
GPU type	Mali-G610 MC6
Video encoding	H.264, HEVC
Video support	H.264, HEVC, VP-9, AV1
<b>Screen</b>	
Maximum scanning frequency	FHD+ 180Hz, WQHD+ 120Hz
<b>WHO</b>	MediaTek APU 580 (multi-core)

Because MediaTek Dimensity 8250 is a newly released processor, it is not yet equipped on many products. Currently, the chipset only appears on the Oppo Reno 12, introduced in May. However, the chip is expected to be used on a series of smartphone models launched between now and the end of the year.

## MediaTek Dimensity 8250 performance

MediaTek Dimensity 8250 achieved impressive results in performance tests. On popular benchmarking platforms like Geekbench 5, the processor scores around 900 points in single-core performance and around 2900 points in multi-core performance.

These scores show that the Dimensity 8250 is an upper mid-range processor suitable for everyday use, gaming, and multitasking scenarios. In addition, the AnTuTu benchmark results of Dimensity 8250 are quite impressive.

The processor scores around 500,000 points on AnTuTu, delivering good performance for a mid-range smartphone. This score also proves that the Dimensity 8250 has good graphics performance, suitable for gaming.

### Geekbench 5:

1. Single core: 900
2. Multi-core: 2900

### AnTuTu:

1. Total points: 500,000

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