MediaTek Dimensity 9300, shows impressive performance results in Geekbench 6, but still cannot beat Apple A17 Pro

An overview of the power of one of the most notable mobile processors on the upcoming market.

According to the roadmap, MediaTek will officially announce Dimension 9300 at the end of October. However, the chip's technical specifications and performance evaluation results have been leaked in relative detail, providing an overview of the power of one of the most notable mobile processors on the market. upcoming school.

Coming to the specifications first, the Dimensity 9300 is rumored to also offer a maximum clock speed of 3.25GHz. However, there will be some differences in the core structure, different from what was seen on previous versions. MediaTek is said to use not one but a total of four high-performance Cortex-X4 cores. Of course, to avoid spikes in power consumption, only one of them can reach 3.25GHz, while the remaining three cores are expected to operate at lower clock speeds, but it's not clear yet. specific number.

The remaining four cores are Cortex-A720 cores, forming a '1 + 3 + 4' cluster. Notably, the Dimensity 9300 will not contain any low-power Cortex-A520 cores, which only means that the overall power consumption will be higher than the Snapdragon 8 Gen 3. As for the GPU, the leak claims that the Mali Immortalis G720 integrated graphics processor will have 12 cores, but specific performance is not mentioned.

Performance evaluation results of Dimension 9300 on Geekbench 6 were recently posted, and showed really impressive numbers. However, compared to the absolute 'king' in the current mobile processor market, the A17 Pro, MediaTek's upcoming flagship chip is probably still in the 'underdog'.

The posted source shows that the Dimensity 9300 has been tested on a smartphone model called 'OPPO PHZ110' that has not yet been released, possessing 16GB RAM and an 8-core CPU cluster, of which the best performing core has the clock speed. 3.25GHz. On the Geekbench 6 benchmark, MediaTek's processor achieved single-core and multi-core scores of 2,139 and 7,110, respectively. Remember that this year, the Dimensity 9300 does not have the energy-efficient Cortex-A520 core, so the combination of Cortex-X4 and Cortex-A720 should theoretically help improve multi-core results.

OPPO PHZ110

2139	7110
Single-Core Score	Multi-Core Score

Geekbench 6.1.0 for Android AArch64

Result Information

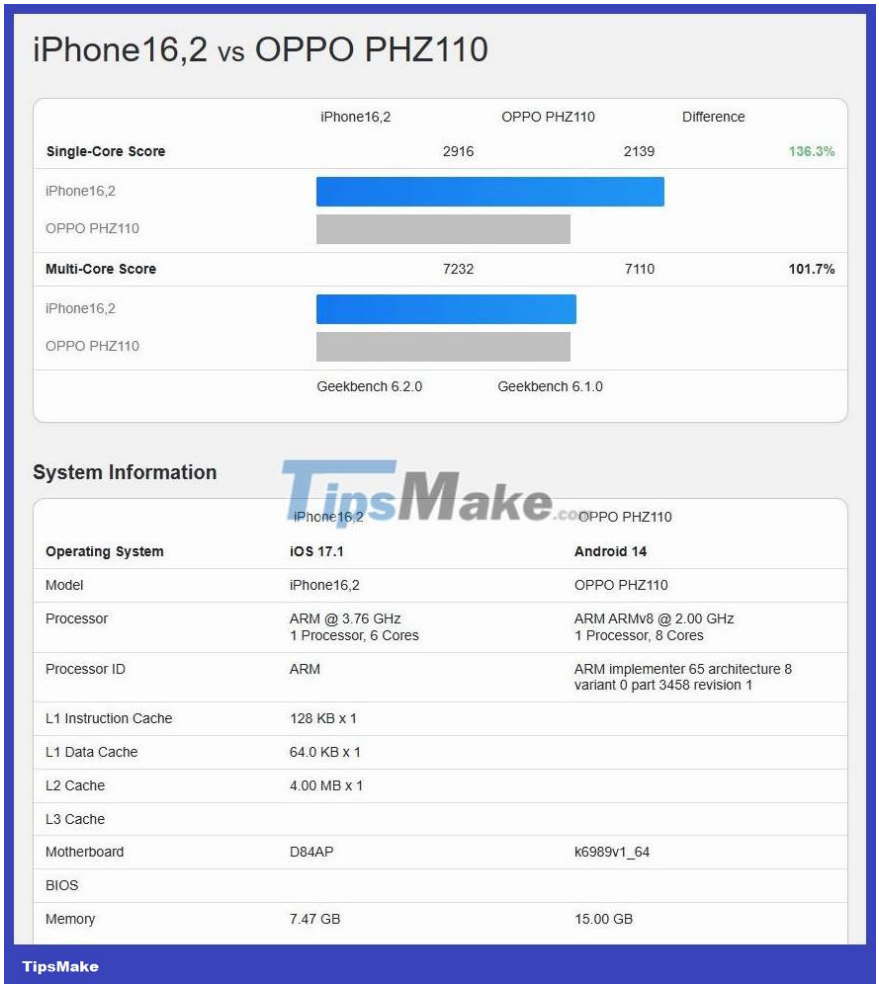
Upload Date	October 19 2023 12:59 PM
Views	182

System Information

System Information	
Operating System	Android 14
Model	OPPO PHZ110
Model ID	OPPO PHZ110
Motherboard	k6989v1_64

CPU Information	
Name	ARM ARMv8
Topology	1 Processor, 8 Cores
Identifier	ARM implementer 65 architecture 8 variant 0 part 3458 revision 1
Base Frequency	2.00 GHz
Cluster 1	4 Cores @ 2.00 GHz
Cluster 2	3 Cores @ 2.85 GHz
Cluster 3	1 Core @ 3.25 GHz

Memory Information	
Size	15.00 GB



Even with this impressive configuration, the Dimensity 9300 still cannot compare to the A17 Pro in terms of performance. The Apple chip is 36.3% stronger than MediaTek's in single-core tests and 1.7% in multi-core performance. Overall, both SoCs can be considered equally powerful in terms of multi-core performance, but single-core power is the main factor that makes the difference. Even a higher clocked Cortex-X4 core cannot help the Dimensity 9300 catch up with the A17 Pro in this aspect.

Of course, we can expect the Dimensity 9300 commercial devices to perform better when officially launched. Since MediaTek's latest chipset mainly uses Cortex-X4 cores, it is possible that the power consumption will be higher this time, which may cause the device's temperature to increase if not well dissipated, leading to the thermal throttling and reduced efficiency.

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