

Leaked specifications of MediaTek Dimensity 9300: Highest clock speed of 3.25GHz with 12-core GPU

A series of recent reports indicate that MediaTek will likely announce the Dimensity 9300 flagship CPU model before Qualcomm launches Snapdragon 8 Gen 3.

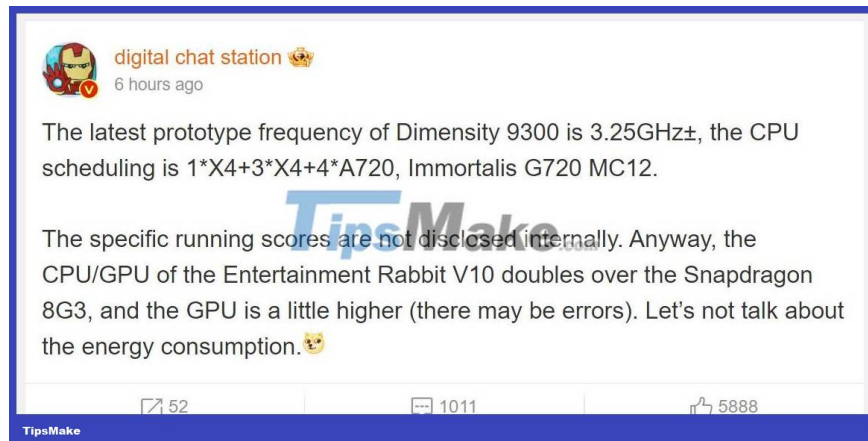
A series of recent reports indicate that MediaTek will likely announce the Dimensity 9300 flagship CPU model before Qualcomm launches Snapdragon 8 Gen 3, in order to attract attention from the media and create an early competitive advantage in the market. .

According to the roadmap, MediaTek will officially announce Dimension 9300 later this month. However, the chip's specifications have been leaked in relative detail, giving an overview of the power of one of the most notable mobile processors on the upcoming market.

Similar to the Snapdragon 8 Gen 3, 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.

On the opposite side, Qualcomm is rumored to be testing the Snapdragon 8 Gen 3 with two configuration versions, but it is highly likely that the US semiconductor giant will still stick with the '1 + 5 + 2' CPU cluster, with the emphasis on a single Cortex-X4 core.



Overall, the above information is somewhat consistent with some previous rumors that the Dimensity 9300 will beat the Snapdragon 8 Gen 3 in terms of CPU performance, but in return will be inferior to its opponent in terms of power saving. Using four such Cortex-X4 cores will adversely affect battery life even though both chipsets are mass produced on TSMC's N4P process.

According to experts, the '1 + 3 + 4' configuration will help Dimensity 9300 perform better than Snapdragon 8 Gen 3 in both CPU and GPU tasks. But since there aren't any power consumption figures yet, we won't be able to determine how well the SoC will perform under continuous workloads. Assuming that the Dimensity 9300 cannot control temperature and stutters when running intensive CPU and GPU tests, the performance stability of this chip will certainly be lower than that of Snapdragon 8 Gen 3 and vice versa.

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