

MediaTek MT6762D

VS

Unisoc SC9863



MediaTek MT6762D Helio P22 vs Unisoc SC9863

Comparison of the technical characteristics between the processors, with the MediaTek MT6762D Helio P22 on one side and the Unisoc SC9863 on the other side. The first is dedicated to the smartphone sector, It has 8 cores, 8 threads, a maximum frequency of 1.8GHz. The second is used on the smartphone segment, it has a total of 4 cores, 4 threads, its turbo frequency is set to 1.6 GHz. The following table also compares the lithography, the number of transistors (if indicated), the amount of cache memory, the maximum RAM memory capacity, the type of memory accepted, the release date, the maximum number of PCIe lanes, the values obtained in Geekbench 4 and Cinebench R15.

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Specifications:

Processor	MediaTek MT6762D Helio P22	Unisoc SC9863
Market (main)	Smartphone	Smartphone
ISA	ARMv8-A (64-bit)	ARMv8.2-A (64-bit)
Microarchitecture	Cortex-A53	Cortex-A55
Family	Helio P	SC9800
Part number(s), S-Spec	MT6762D	SC9863, Spreadtrum SC9863
Release date	Q2 2020	Q1 2019
Lithography	12 nm	28 nm HPC+
Cores	8	4
Threads	8	4
Base frequency	1.5 GHz	1.2 GHz
Turbo frequency	1.8 GHz	1.6 GHz
Energy cores	4x ARM Cortex-A53 @ 1.5 GHz	4x ARM Cortex-A55 @ 1.2 GHz
High performance cores	4x ARM Cortex-A53 @ 1.8 GHz	4x ARM Cortex-A55 @ 1.6 GHz
Cache memory	2 MB	256 KB
Max memory capacity	6 GB	3 GB
Memory types	LPDDR4X-3200, LPDDR3-1866	LPDDR3, LPDDR4
Max # of memory channels	2	2
TDP	5 W	3 W

GPU integrated graphics	Imagination PowerVR GE8320	Imagination PowerVR GE8322
GPU execution units	2	4
GPU shading units	64	128
GPU clock	650 MHz	-
GPU FP32 floating point	41.6 GFLOPS	128 GFLOPS
Socket	SoC	SoC
AnTuTu	93,000	34,000
(Android) Geekbench 5 single core	146	147
(Android) Geekbench 5 multi-core	720	727

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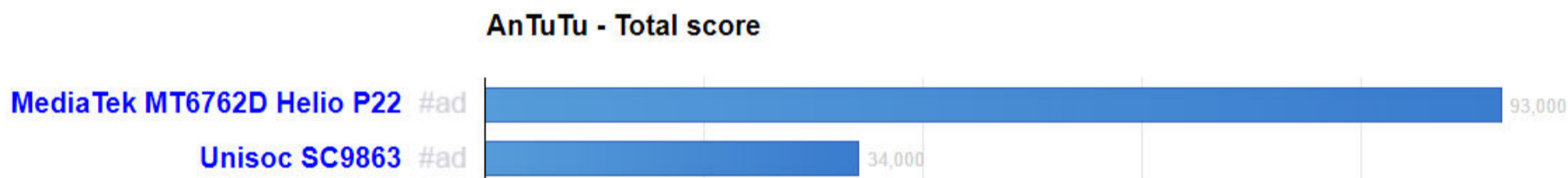
We can better compare what are the technical differences between the two processors.

Price: For technical reasons, we cannot currently display a price less than 24 hours, or a real-time price. This is why we prefer for the moment not to show a price. You should refer to the respective online stores for the latest price, as well as availability.

The processor MediaTek MT6762D Helio P22 has more cores, the maximum frequency of MediaTek MT6762D Helio P22 is greater, that the thermal dissipation power of Unisoc SC9863 is less. The MediaTek MT6762D Helio P22 was designed earlier.

Performances :

Performance comparison between the two processors, for this we consider the results generated on benchmark software such as Geekbench 4.

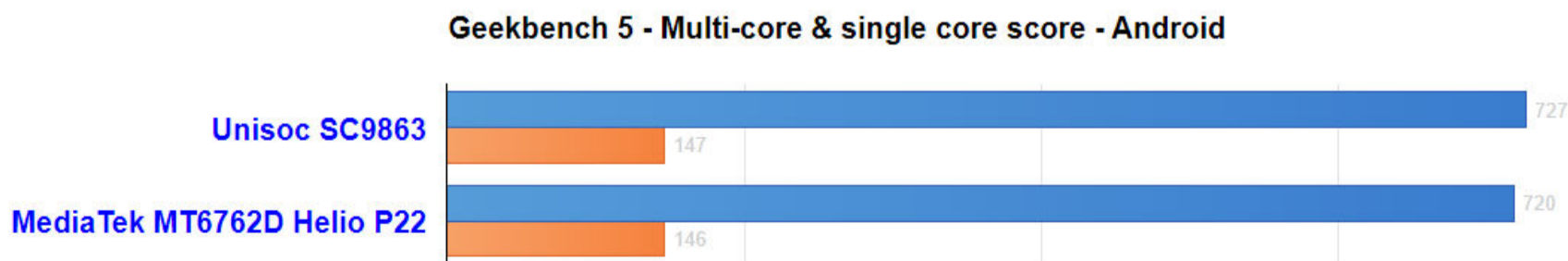


The difference is 174%.

Note: Commissions may be earned from the links above. These scores are only an average of the performances got with these processors, you may get different results.

AnTuTu is one of the most popular apps in the world to evaluate and compare the power of a mobile device with the competition. It tests above all the power of calculation, the display of Web pages, the modeling of decorations in 3D, the management of the memory, the transfer of data.

On Android:



In single core, the difference is 1%. In multi-core, the difference in terms of gap is 1%.

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