Qualcomm announces new 4G chipset series: Snapdragon 720G, 662, and 460, what's noteworthy?

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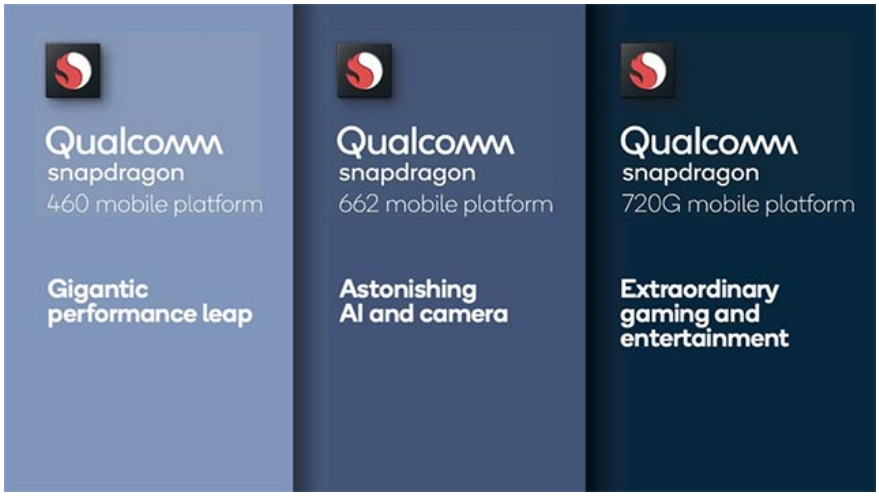
Qualcomm has launched a series of three new mobile CPU platforms targeting the mid-range and mainstream segments including Snapdragon 720G, 662, and 460, with basic support for higher speed 4G LTE connectivity, Wi -Fi 6 and Bluetooth 5.1. There are also a number of notable improvements compared to their predecessors such as advanced audio technology through 6-series Qualcomm FastConnect subsystems, dual frequency GNSS support (L1 and L5) that help improve accuracy in positioning, or new AI experience with Qualcomm® AI Engine and Qualcomm® Sensing Hub . we will find out shortly.



Snapdragon 460

As usual, the Snapdragon 460 will be aimed at the low-end segment, but it is not 'cheap' at all. With 8 cores Kryo 240, Qualcomm is confident that the performance of Snapdragon 460 will increase dramatically, up to 70% compared to other products of the Snapdragon 400 series. This is largely thanks to the appearance of the performance core. Previously, all the cores in the CPU of the Snapdragon 400 series were the same, but now the big.LITTLE architecture will be more powerful and efficient.

In addition, Snapdragon 460 will be equipped with a Snapdragon X11 modem similar to Snapdragon 662, giving 390Mbps download speed thanks to 2x2 MIMO and 256-QAM antennas, while the upload speed reaches a maximum of 150Mbps. Adreno 610 GPU's performance boosts graphics processing performance by 60%. The ISP is Spectra 340, supporting 25 MP camera (single) or 16 MP (dual). Especially the first appearance of the Hexagon 683 DSP in a Snapdragon series 4 chip.

Snapdragon 662

Snapdragon 662 is made up of Kryo 260 cores, 4 of which are Cortex-A73 clocked at 2 GHz and the remaining 4 cores are 1.8 GHz Cortex-A53, combined with Adreno 610 GPU. This chip will also be equipped with Hexagon 683 DSP, but ISP is Specter 340T, supports 48MP photography, HEIF file format, smooth optical zoom and 3-lens camera cluster. The chipset will also support Snapdragon X11 and Qualcomm FastConnect 6100.

Especially with the Snapdragon 662, users will first experience the ability to take photos with the support of artificial intelligence technology on the Snapdragon 6-serie chip line with 3rd generation Qualcomm AI tools, Hexagon Vector Extensions and Qualcomm Spectra 340T.

Snapdragon 720G

Snapdragon 720G will be a chip aimed at the mid-range and high-end segments, so it will possess more powerful equipment than the two upper-ups.

The letter 'G' stands for 'game', so the Snapdragon 720G will be a line of chips specifically optimized for gamers. With Kryo 465 architecture, 2 cores based on Cortex A76 2.3 GHz core and 6 cores based on 1.8 GHz Cortex A55 core and Adreno 618 GPU, Snapdragon 720G is expected to bring better computing and graphics performance. 60% and 75% of previous products, respectively.

This CPU model is equipped with Hexagon 692 DSP with Hexagon Tensor Accelator and Spectra 350L ISP, providing support for 192MP cameras and 4K shooting. Quick Charge 4+ enables quick charging from 0% to 50% in less than 15 minutes, is USB-PD compatible.

With the presence of the Snapdragon X15 LTE Modem, the Snapdragon 720G is capable of supporting up to 3 carriers, 4 x 4 MIMO antennas, and 256-QAM modulation, for download speeds of up to 800 Mbps. Along with that is FastConnect 6200 which significantly increases the range of Wi-F and 6-speed Wi-Fi standards.

The first devices running Snapdragon 720G are expected to be available in the first quarter of this year. While Snapdragon 662 and 460 will only appear in the smartphone launched late.