

Qualcomm introduces Snapdragon 780G 5G Mobile Platform

March 26 2021, by Sarah Katz



Snapdragon 780G 5G. Credit: Qualcomm

The latest in its communications developments, Qualcomm has revealed the Snapdragon 780G 5G Mobile Platform. This platform runs on many 7-series firsts, such as a tripe ISP, the 6th generation Qualcomm Artificial Intelligence (AI) Engine as well as hyper rapid Wi-Fi 6. These features enable users to create new communication experiences, improve existing functionality and share data without limit.

Fueled by the redesigned Qualcomm AI Engine, Snapdragon relies on [artificial intelligence](#) to carry out its state-of-the-art operations. Moreover, the 2nd gen Qualcomm Sensing Hub offers a custom audio and voice AI accelerator for continuous, low power AI support.

These 7-series firsts come together to bring AI performance to an industry-leading 12 TOPS. In addition, the Qualcomm Spectra 570 ISP presents another industry-first to the Snapdragon 780G 5G to provide simultaneous triple capture as well as industry-leading Wi-Fi 6. These enhanced features allow users to smoothly share high-quality photos in real time.

Furthermore, the Snapdragon 780G 5G Platform also offers a suite of gaming tools. While some of these select features aim to smash the gaming competition, the boosted Qualcomm Kryo 670 CPU provides as much as 40 percent performance improvement.

To highlight the Snapdragon's enhanced features, the new powerful AI promises to considerably boost functionality. With its AI Engine, the Qualcomm Hexagon 770 processor offers brand new architecture including a fused AI accelerator. Moreover, shared memory between Tensor Scalar accelerators and Vector eXtensions contribute to faster data transfer as well as a 2X performance per Watt improvement compared to its predecessor.

In terms of new camera capture capabilities, Snapdragon 780G 5G offers a triple ISP, allowing the user to snap three 25 MP photos simultaneously from each lens—from the angles of wide, ultra wide and zoom. In fact, the Snapdragon's new low light feature even enables users to capture photos in the dark. Finally, the HDR10+ feature lets the user take photos in more than a billion shades of vibrant color.

As far as the artificial intelligence itself, the 2nd gen Qualcomm Sensing Hub includes a dedicated AI processor that operates on AI use cases at very low power. Equipped to run efficiently at below 1 mA power use, the Hub can transfer 80 percent of the Hexagon processor's workload. Additionally, the Hub gathers data across all cores in order to provide contextual, fulltime awareness.

Indeed, the Wi-Fi 6 with which the Snapdragon 780G 5G runs even offers advanced, low-latency Bluetooth Audio.

More information: "Snapdragon 780G 5G Mobile Platform."
Qualcomm, Qualcomm, 25 Mar. 2021,
[www.qualcomm.com/products/snap ... g-5g-mobile-platform](https://www.qualcomm.com/products/snapdragon-780g-5g-mobile-platform)

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Citation: Qualcomm introduces Snapdragon 780G 5G Mobile Platform (2021, March 26)
retrieved 27 April 2024 from
<https://techxplore.com/news/2021-03-qualcomm-snapdragon-780g-5g-mobile.html>

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