

INTRODUCING THE SNAPDRAGON 820

ADRENO 530 GPU

Our highest-performing GPU yet, delivering action-packed, graphics-rich mobile gaming with up to a 40% increase in performance and a 40% reduction in power consumption.*



PROCESSING

IMAGING

CONNECTIVITY

GRAPHICS

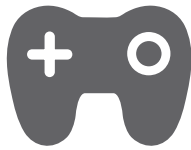
SECURITY

FAST CHARGING

DISPLAY

VIDEO

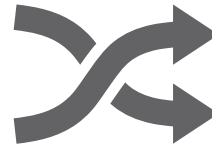
AUDIO



LEADING GAMING & GRAPHICS

Next-generation gaming performance supported by the latest graphics industry APIs.

- Snapdragon 820's Kryo CPU and the Qualcomm® Adreno™ 530 GPU combine to process console-quality games and exciting, next-generation virtual reality applications.
- Adreno 530 delivers superior graphics performance per mW, ideal for high-resolution displays and advanced GUIs.
- Supports the latest graphics APIs: OpenGL ES3.1+AEP, and Vulkan, with an average of 40% faster graphics performance when compared to Snapdragon 810.



FLEXIBLE COMPUTE

Supports heterogeneous computing, and efficient co-processing with Kryo CPU, Qualcomm® Spectra™ ISP and Qualcomm® Hexagon™ DSP.

- Advanced computational photography, computer vision, and video post-processing use cases benefit from Adreno 530 GPGPU (general purpose GPU).
- Adreno 530 GPGPU is programmable with Android Renderscript and OpenCL compute APIs, and supported by Qualcomm™ Snapdragon Symphony System Manager.



POWER-EFFICIENT

Designed for superior power efficiency to support demanding applications.

- Adreno 530 supports advanced rendering, compositing and compression techniques, with up to 40% less power consumption when compared to Snapdragon 810.
- New embedded GPU power manager provides fine granularity of power control as well as fast clock and voltage transitions to reduce the time spent in high frequency and power states.



THE QUALCOMM® SNAPDRAGON™ 820 PROCESSOR IMMERSIVE AND INTELLIGENT.

Introducing the all-new Snapdragon 820—the highest performance mobile processor Qualcomm Technologies has ever created. With advanced heterogeneous compute support, along with the leading Adreno 530 GPU graphics performance and power efficiency, the Snapdragon 820 offers an all-new level of mobile intelligence.

*As compared to the previous generation Adreno 430 GPU.

†Snapdragon 820 has been certified by Khronos for OpenGL™ 2.0, and is expected to be soon for OpenGL™ ES 3.1. Conformance criteria for Vulkan™ Specifications have not yet been established. Snapdragon 820 is intended to support this standard. Qualcomm Adreno, Qualcomm Snapdragon, Qualcomm Spectra and Qualcomm Hexagon are trademarks of Qualcomm Incorporated.

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