

INTRODUCING THE ALL-NEW SNAPDRAGON 820

QUALCOMM SNAPDRAGON 820 MOBILE PROCESSOR

Designed to deliver high performance, rich connectivity and deeply immersive user experiences for premium mobile devices.



PURPOSE-BUILT TO DELIVER IMMERSIVE AND MORE INTUITIVE EXPERIENCES, the Qualcomm® Snapdragon™ 820 processor has been further optimized and enhanced for high performance and long battery life plus rich connectivity for fast, reliable network access that is designed to deliver a full day of dependable service with features and innovation that define a premium mobile experience.

IMMERSIVE & INTELLIGENT

The Snapdragon 820's heterogeneous architecture enables the GPU, ISP and DSP to work together seamlessly alongside video, display and audio processors to create a new level of user immersion.

- The Adreno GPU, Qualcomm Spectra ISP, Hexagon DSP and VPU/DPU all benefit from heterogeneous computing to improve quality, enhance editing and speed rendering
- 3D positional audio with low latency, Hi-Fi surround sound with ANC, and Fluence™ noise filtering provide enhanced audio for virtual reality and gaming
- Qualcomm® TruPalette™ display color enhancements and Qualcomm® EcoPix™ compression features enhance visual quality while simultaneously boosting performance and reducing power

ALL DAY PERFORMANCE

The Snapdragon 820 Qualcomm® Kryo™ CPU is a return to a complete custom processor, tightly integrated for peak performance and optimized for mobile.

- Qualcomm® Kryo™ CPU delivers up to 2X performance and 2X power efficiency, as compared to the previous generation
- Adreno 530 GPU is designed for up to 40% performance improvements and 40% power reduction, as compared to the previous generations
- Hexagon 680 DSP offers substantially improved integration with Hexagon Vector eXtensions for heterogeneous compute and Snapdragon Sensor Core for always-on application support, and delivers up to 3X performance increase and 10X power efficiency

COVERED COMPLETELY

Offering our most advanced connectivity features available, Snapdragon 820 allows users to connect seamlessly virtually anywhere, so they can take their experiences with them wherever they go.

- Cat 12/13 LTE supports download speeds of up to 600Mbps
- 11ac 2x2 MU-MIMO and 11ad support Wi-Fi download speeds of up to 4.6Gbps
- Snapdragon 820 even offers LTE/Wi-Fi convergence allowing users to combine services and connectivity, improving quality, speeds and reliability