

Qualcomm Introduces Next Generation Snapdragon 600 and 400 Tier Processors for High Performance, High-Volume Smartphones with Advanced LTE

Qualcomm Extends Snapdragon Brand to Modem Chipsets; Introduces Premium Features and Performance to High Volume Tiers

SAN DIEGO, Feb. 18, 2015 /PRNewswire/ -- Qualcomm Incorporated (NASDAQ: QCOM) today announced that its wholly-owned subsidiary, Qualcomm Technologies, Inc., has introduced four new Qualcomm® Snapdragon™ processors aimed at enhancing user experience and connectivity for high-performance and high-volume mobile devices. The new [Snapdragon 620](#) and [Snapdragon 618](#) processors are redefining the 600 tier with significantly higher levels of performance with integrated 64-bit ARM Cortex A-72 CPUs and the new X8 LTE modem. The new [Snapdragon 425](#) and [Snapdragon 415](#) processors both feature octa-core CPUs, a first for the 400 tier. The Snapdragon 425 doubles LTE download and upload speeds with the X8 LTE modem, another first in the 400 tier, as well as advanced camera features with dual ISPs and high-fidelity audio, while the Snapdragon 415 processor integrates X5 LTE, supporting download speeds of up to 150 Mbps. The Snapdragon 415 chipset is sampling now and expected to be in commercial devices in first half of 2015. The Snapdragon 620, 618 and 425 processors are expected to be in commercial devices in the second half of 2015.

As part of this announcement, Qualcomm Technologies also has extended its flagship brand, Snapdragon, to its discrete modem chipsets, and introduced [LTE modem classes](#) (including X8 and X5) across its latest system-on-chip and discrete modem products for mobile devices. The new X8 LTE modem, which supports both downlink and uplink Carrier Aggregation, supporting peak download speeds of up to 300 Mbps and upload speeds of up to 100 Mbps. X8 LTE connectivity supports wideband (up to 40 MHz) downlink and uplink carrier aggregation for the first time in the 600 and 400 tiers. X5 LTE, found in the Snapdragon 415, features integrated 4G LTE Cat 4.

The Snapdragon 620 and 618 processors also include features previously only available in the Snapdragon 800 tier, including dual ISP camera, 4K video capture and playback, HEVC hardware encoding, richer gaming with next-generation Qualcomm® Adreno™ graphics and advanced Wi-Fi connectivity. All of the new processors are designed to enhance the consumer user experience and are available with the latest camera features, amazing download speeds and fast-charging with Qualcomm® QuickCharge™ 2.0 technology.

"It has always been Qualcomm Technologies' strategy to introduce industry-leading features first at the premium Snapdragon 800 tier design point, and then scale these features into our Snapdragon 600, 400 and 200 products, so that we can help our customers deliver great user experiences to cost-conscious consumers," said Alex Katouzian, senior vice president of product management, Qualcomm Technologies. "We are excited to announce the Snapdragon 620 and 618 processors with next-generation graphics, camera, 4K video capture and connectivity, all premium tier features previously only found in our Snapdragon 800 class products. The Snapdragon 620 and 618 also both come with X8 LTE, as does the Snapdragon 425, marking the first time we've supported this amazingly fast speed at the 400 tier."

The new Snapdragon 620 and 618 processors integrate superior user experiences for high-tier mobile devices, while maintaining superior battery performance, including:

- **X8 LTE connectivity:** Seamless, always-on connectivity with LTE Cat 7 modem supporting 2x20 MHz Carrier Aggregation for data speeds of up to 300 and 100 Mbps, in the download and upload, respectively. Single SKU global multimode LTE design capable of LTE Broadcast, LTE dual SIM, and VoLTE
- **Superior performance:** Fast responsiveness, application loading, web browsing and file access are made possible with high-end 64-bit Cortex-A72 CPUs. Snapdragon 620 combines 64-bit quad-core ARM Cortex-A72 CPUs and Cortex-A53 cores; Snapdragon 618 is configured with two ARM Cortex-A72 cores paired with quad Cortex-A53 CPUs.

Dual channel LPDDR3 memory increases the memory bandwidth to seamlessly run intensive applications such as 4K video.

- **Realistic graphics:** The next-generation Qualcomm® Adreno™ GPU is designed so users can experience even more realistic scenes and graphics for a greatly enhanced mobile gaming experience at lower power.
- **Exceptional camera:** High quality camera with dual Image Signal Processors (ISP) supporting twin 13MP cameras, gyro image stabilization, enhanced autofocus and local tone mapping to improve image quality beyond HDR.
- **Advanced multimedia:** 4K video capture and playback with HEVC (H.265) for the first time in the 600 tier, along with support for Quad HD (2K) displays and wireless streaming full HD.
- **Continual, low power sensors:** Dedicated Qualcomm® Hexagon™ DSP sensor engine supports real-time, always-on use cases for motion, location, health and environmental sensing, and minimizes the need for an external sensor hub, supporting high performance at much lower power.
- **Exceptional Audio Experience:** Qualcomm Immersive Audio allows consumers to enjoy movies and music with theater-like sound, first-person games with unprecedented realism and fully immersive audio experience without the need for headphones. Also supports High-Fidelity 192kHz/24bit music playback for the most demanding audiophiles and music aficionados.

Qualcomm Technologies also introduced the Snapdragon 425 with enhanced X8 LTE connectivity and premium camera, audio and multimedia features. Featuring integrated 4G LTE Cat 7 with downlink speeds of up to 300 Mbps and uplink speeds of up to 100 Mbps, Snapdragon 425 is designed to support greater network speeds, stability and coverage in the high-volume segment. Together with the Qualcomm RF360™ Front End Solution, the chipset supports all major modes and frequency bands across the globe, including 5-mode, as well as up-and-coming requirements such as dual SIM, LTE Broadcast and VoLTE support. With the Adreno 405 GPU, eight 64-bit ARM Cortex-A53 CPUs and a superior video engine with support for Full HD 1080p playback and hardware HEVC decode, as well as premium multimedia features such as dual-ISP camera and high-fidelity audio, the Snapdragon 425 is positioned to be a leader in the high-volume segment.

As 4G LTE networks ramp up speed and coverage across regions and price points, the Snapdragon 415 processor with integrated X5 LTE helps price-conscious consumers have access to LTE speeds and dependability. Designed for high-volume smartphones and tablets, the Snapdragon 415 chipset supports full HD 1080p capture and playback, eight 64-bit ARM Cortex-A53 CPU cores and Adreno 405 GPU for high quality graphics.

Qualcomm Technologies anticipates releasing the Qualcomm Reference Design (QRD) versions of the Snapdragon 620, 618, 425 and 415 processors, with support for Qualcomm RF360 Front End Solution. The QRD program offers Qualcomm Technologies' leading technical innovation, easy customization options, the Qualcomm® Global Pass which features regional software packages, modem configurations, testing and acceptance readiness for regional operator requirements, and access to a broad ecosystem of hardware component vendors and software application developers. Under the QRD program, customers can rapidly deliver differentiated smartphones to value-conscious consumers. There have been more than 1,080 public QRD-based product launches in 21 countries.

Qualcomm Technologies continues to deliver advanced, high-speed connectivity solutions, through its discrete modem product line, for a wide range of applications, from smartphones and embedded computing devices to mobile routers and automotive telematics. Its most advanced modem chipset, formerly known as Gobi 9x45, has transitioned to the Snapdragon modem brand, and features the ultimate in mobile connectivity – X12 LTE – with up to 450 and 100 Mbps download/upload speeds respectively.

About Qualcomm Incorporated

Qualcomm Incorporated (NASDAQ: QCOM) is a world leader in 3G, 4G and next-generation wireless technologies. Qualcomm Incorporated includes Qualcomm's licensing business, QTL, and the vast majority of its patent portfolio. Qualcomm Technologies, Inc., a wholly-owned subsidiary of Qualcomm Incorporated, operates, along with its subsidiaries, substantially all of Qualcomm's engineering, research and development functions, and substantially all of its products and services businesses, including its semiconductor business, QCT. For more than 25 years, Qualcomm ideas and inventions have driven the evolution of digital communications, linking people everywhere more closely to information, entertainment and each other. For more information, visit Qualcomm's [website](#), [OnQ blog](#), [Twitter](#) and [Facebook](#) pages.

Qualcomm, Snapdragon, Gobi, Adreno, Hexagon and Qualcomm RF360 are trademarks of Qualcomm Incorporated, registered in the United States and other countries. Qualcomm Quick Charge is a trademark of Qualcomm Incorporated.

Qualcomm Contacts:

Jon Carvill, Corporate Communications
Phone: 1-858-845-5959
Email: corpcomm@qualcomm.com

Warren Kneeshaw, Investor Relations
Phone: 1-858-658-4813
Email: ir@qualcomm.com

To view the original version on PR Newswire, visit <http://www.prnewswire.com/news-releases/qualcomm-introduces-next-generation-snapdragon-600-and-400-tier-processors-for-high-performance-high-volume-smartphones-with-advanced-lte-300037579.html>

SOURCE Qualcomm Incorporated