

QUALCOMM® SNAPDRAGON™ 600 PROCESSORS

Snapdragon 600 processors are designed to enable industry-leading performance for today's coolest apps, fast web browsing, seamless connectivity and great battery life for mid- to high-tier smartphones and tablets.

Snapdragon 600 processors are designed to outperform other new mobile processors in performance per watt. Offering system-wide architectural improvements, key component upgrades and expanded connectivity options, Snapdragon 600 efficiently enables the kinds of advanced user experiences today's users demand, like smooth online 3D gaming and super responsive web browsing.

Custom built and optimized for mobile featuring:

- + Superior Krait™ CPU architecture
- + High-performance Qualcomm® Adreno™ GPU for console quality 3D graphics
- + Multithreaded Qualcomm® Hexagon™ DSP for ultra-low power applications
- + Dedicated multimedia subsystem for rich media and longer battery life
- + Broad sensor support for advanced application enablement
- + End-to-end content and platform security using Snapdragon StudioAccess™ and SecureMSM™

When you need highly competitive, efficient mobile computing capability for high-volume tablets and smartphones, Snapdragon 600 processors offer the ultimate in features, performance and power efficiency.

USER EXPERIENCES

Qualcomm Snapdragon 600 processors bring complete high-end productivity and multimedia experiences to smartphones and tablets.

- + Capture and playback video at 1080p HD
- + Take high-resolution, 3D photos with 21 Megapixel stereoscopic camera support
- + Play high-end multiplayer 3D online games in real time
- + Bring home theater quality audio with you wherever you go with enhanced audio effects
- + Enjoy your photos, videos and games on large, high-resolution display devices (up to 2048x1536) and even on 1080p external displays

FEATURES

CPU

- + Upgraded Krait 300 CPU architecture for peak performance
- + Quad core CPU for advanced multitasking and multithreaded application support
- + LP-DDR3 memory for high performance and low latency

GPU

- + Speed enhanced Adreno 320 GPU delivers over 300% increase in graphics processing performance¹
- + Support for advanced graphic and compute APIs, including OpenGL ES 3.0, DirectX, OpenCL, Renderscript Compute and FlexRender™²
- + Support for popular middleware and game engines like Unity, Epic, and Unigine

DSP

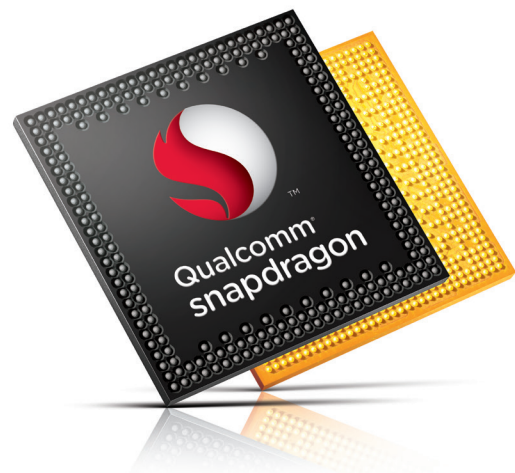
- + Hexagon DSP enables ultra-low power operation for a variety of applications like music playback, enhanced audio effects, computer vision processing and still and video image enhancements

Connectivity

- + 802.11ac for peak Wi-Fi performance, publicly demonstrated to 280 Mbps UDP
- + Qualcomm® IZAT™ location technology features GNSS for accurate auto and pedestrian navigation and Indoor Location capabilities for advanced location-based services
- + Featuring discreet, low-power NFC

Power Management

- + Energy efficient LP process
- + aSMP dynamic CPU power control for power-optimized performance
- + Dynamic GPU clock and voltage scaling
- + Qualcomm® Quick Charge™ 1.0 integrated for up to 40% faster battery charging



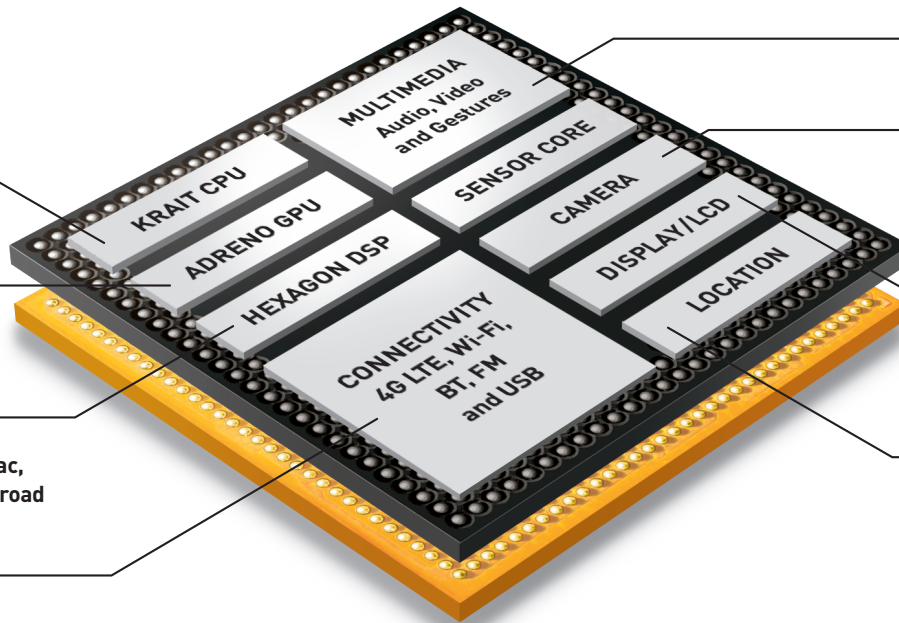
600 PROCESSOR

Krait 300 CPU provides improved, sustained performance in a mobile power profile

Speed enhanced Adreno 320 GPU

Hexagon QDSP6 for ultra low power applications

Integrated LTE³, 802.11n/ac, USB 2.0 and BT 4.0 offer broad array of high-speed connectivity



1080p HD Capture and Playback
DTS-HD and Dolby Digital Plus audio

Up to 21MP

Support for up to 2048x1536 + 1080p external display

IZat GNSS

SPECIFICATIONS

System

- + 28nm LP quad core Krait 300 CPU at up to 1.9GHz per core
- + Speed enhanced version of Adreno 320 GPU
- + Hexagon QDSP6

Multimedia

- + Video: 1080p HD capture/playback
- + Camera: Up to 21 Megapixel, stereoscopic 3D
- + Display: 2048x1536 + 1080p external display
- + Audio: HD multichannel sound with DTS-HD and Dolby Digital Plus

Connectivity

- + 802.11n/ac (2.4/5GHz) + Integrated digital core
- + BT4.0 + Integrated digital core
- + IZat GNSS
- + USB 2.0

To learn more visit snapdragon.com or mydragonboard.org



¹ Compared to its predecessor, Adreno 305

² FlexRender is designed to help the Adreno GPU boost speed and save power by dynamically switching between drawing pixels in direct or deferred rendering mode
Snapdragon 600 processors include the following part numbers: 8064T and 8064M

³ Available only in select processors