



Snapdragon™ S4 Processors by Qualcomm®

Best-in-class multicore performance, highly realistic 3D gaming, and energy efficient platform for exceptionally long battery life.

Best-in-class performance that can run the most demanding applications, including 1080p HD videos, visually intensive 3D games and video, as well as High-Definition video conferencing. Applications run simultaneously and seamlessly with advanced multitasking support from the Snapdragon S4 processor. Take advantage of lightning-fast downloads with a fully-integrated 4G LTE modem. Capture lifelike photos and videos and quickly convert them into depth-defying 3D content. Snapdragon S4 processors are feature-rich, single-chip solutions that extend battery life and take your mobile applications to the next level of computing.

What's your mobile style?

- + Capturing 1080p HD videos and professional-quality photos
- + Playing graphic intensive 2D and 3D games
- + Sharing content at lightning-fast speeds
- + Switching from app to app without pause

If you're in search of the ultimate mobile experience, smartphones, tablets and laptops powered by Snapdragon S4 processors are for you.

Features

Snapdragon S4 processors: Delivering complete productivity and multimedia experience for smartphones, tablets, and laptops. Features include:

- + Dual and quad core configurations for multitasking on the move
- + Blistering 3D graphics and immersive visuals for intense gaming experience
- + Multimode 4G LTE modem ensuring fast internet browsing and app downloads
- + High-definition 1080 video playback and multi-screen support, with integrated HDMI
- + High-resolution 1920-by-1080 (1080p) display support
- + Advanced Dolby 7.1 surround sound audio
- + Support for up to three cameras, with support of up to 20MP, image stabilization, zero shutter lag, and HDR
- + 2D to 3D stereoscopic conversion for S-3D playback on device or streaming to external display
- + Full wireless connectivity with onboard Wi-Fi, Bluetooth, FM radio, and precision GNSS, which consists of GPS and Glonass location receivers
- + Share content or data wirelessly using your Wi-Fi network with Wi-Fi Display and Wi-Fi Direct (mobile hotspot)



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Made available in the following products: APQ8064, APQ8060A, MSM8960, MSM8660A, MSM8260A, APQ8030, MSM8930, MSM8630, MSM8230, MSM8627, MSM8227, MSM8625, MSM8225

Specifications¹

CPU ²	Up to Dual and quad-core Krait CPUs up to 2.5GHz per core, first to 28nm architecture
GPU	Options include Adreno™ 225 Graphics with support for DX 9.3, OpenGL ES 2.0 or Adreno™ 305 Graphics with support for DX 9.3, OpenGL ES 3.0 "Halti", Open CL 1.1
Modem	Multimode LTE, HSPA+, CDMA2000 1X, 1xEV-DO Rel A/B, GSM, GPRS, and EDGE
Memory	Up to dual channel memory at 2 x 533MHz LPDDR2 and PCDDR3
Video	HD 1080p, 30fps video playback and streaming
Camera	20 Megapixel; three camera support, stereoscopic 3D capture, playback, output up to 1080p
LCD Support	Up to HD1080 (1920x1080), integrated HDMI v1.4 interface
Audio	Up to 128-voice polyphony, Dolby™ 7.1 Surround sound, quad microphone and noise cancellation
USB	USB 2.0 High Speed OTG (480Mbps)
Security and DRM	Secure Boot, Secure Code Signing Service, TrustZone SEE, Cryptographic accelerator and HW RNG
Wi-Fi/BT/FM	Support for dual-band Wi-Fi 802.11a/b/g/n, Bluetooth 4.0, and FM radio connectivity ³

Mobile that's more powerful, more personal, and less power hungry.

Did you know that different technologies work faster, smoother and more efficiently when they're designed to work together? We think that's a pretty smart approach, so that's how we designed our Snapdragon S4 processors. Qualcomm designs Snapdragon processors with more best-in-class, intelligently integrated technologies and deliver what your friends will envy—quick, smooth surfing, visually stunning graphics, and robust performance. Being power-smart, they deliver the precise amount of power you need right when you need it, ensuring consistently great performance without compromising battery life. Snapdragon processors make it possible for you to fully enjoy all the reasons you'd wanted a Smartphone in the first place.

qualcomm.com/snapdragon

¹Specifications vary among Snapdragon S4 processors

²MSM8625 and MSM8225 use ARM Cortex-A5 in 45nm process

³Requires additional components

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