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)
Snapdragon™ S4 Processors by Qualcomm®

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

Specifications1

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Up to Dual and quad-core Krait CPUs up to 2.5GHz per core, first to 28nm architecture</td>
</tr>
<tr>
<td>GPU</td>
<td>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</td>
</tr>
<tr>
<td>Modem</td>
<td>Multimode LTE, HSPA+, CDMA2000 1X, 1xEV-D0 Rel A/B, GSM, GPRS, and EDGE</td>
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<tr>
<td>Memory</td>
<td>Up to dual channel memory at 2 x 533MHz LPDDR2 and PCDDR3</td>
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<tr>
<td>Video</td>
<td>HD 1080p, 30fps video playback and streaming</td>
</tr>
<tr>
<td>Camera</td>
<td>20 Megapixel; three camera support, stereoscopic 3D capture, playback, output up to 1080p</td>
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<tr>
<td>LCD Support</td>
<td>Up to HD1080 (1920x1080), integrated HDMI v1.4 interface</td>
</tr>
<tr>
<td>Audio</td>
<td>Up to 128-voice polyphony, Dolby™ 7.1 Surround sound, quad microphone and noise cancellation</td>
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<tr>
<td>USB</td>
<td>USB 2.0 High Speed OTG (480Mbps)</td>
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<tr>
<td>Security and DRM</td>
<td>Secure Boot, Secure Code Signing Service, TrustZone SEE, Cryptographic accelerator and HW RNG</td>
</tr>
<tr>
<td>Wi-Fi/BT/FM</td>
<td>Support for dual-band Wi-Fi 802.11a/b/g/n, Bluetooth 4.0, and FM radio connectivity3</td>
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</table>

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-A9 in 45nm process
3Requires additional components
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