

QUALCOMM®  
SNAPDRAGON™

427

PROCESSOR

## The Groundbreaking Entry Level Processor

**The Snapdragon 427 processor offers many advancements:**

- + Integrated X9 LTE
  - Cat 7 downlink, up to 300 Mbps
  - Cat 13 uplink, up to 150 Mbps
  - 2x20Mz carrier aggregation with up to 64-QAM
  - Snapdragon All Mode
  - Ultra HD Voice with EVS codec
- + Qualcomm® Hexagon™ DSP provides battery-efficient enhancements to audio, video, and computer vision use cases
- + Dual ISPs supporting up to 16MP Camera with enhanced auto-focus, zero shutter lag
- + Qualcomm® Adreno™ 308 GPU with HD display support @ 60fps
- + Qualcomm® Reference Design availability for all 427 features
- + Qualcomm® Snapdragon StudioAccess™ technology and Qualcomm® SecureMSM™ foundation
- + 425/427/430/435 pin and software compatibility. 625 / 626 software compatible

## USER EXPERIENCES



### Integrated X9 LTE

Up to 3x the LTE upload speeds of most LTE devices - up to 150 Mbps, and advanced Wi-Fi with MU-MIMO - for super-fast sharing of high res photos and videos



### Ultra-low power operation

Hexagon DSP enables battery-efficient enhancements to a variety of applications including music, audio, video and computer vision



### Capture and share sharper camera images fast

Dual image signal processors and enhanced camera software supports higher quality photos



### Advanced 802.11ac Wi-Fi with MU-MIMO

Up to 3x faster downloads of photos, multimedia and other content, in crowded Wi-Fi networks



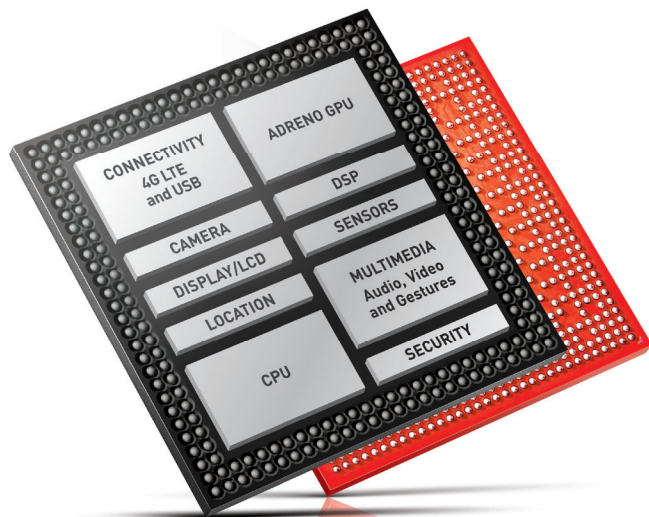
### All day battery life and fast-charging

Tight integration and support for Qualcomm® Quick Charge™ 3.0 technology, plus charge a typical phone from zero to 80 percent in about 35 minutes

Qualcomm®  
snapdragon 

To learn more visit: [snapdragon.com](http://snapdragon.com)

<sup>1</sup> Based on internal tests charging a 3300mAh battery using a [1] QC2.0 USB wall adapter (9V, 2A), [2] USB wall adapter (5V, 2A), and [3] USB wall adapter (5V, 1A), respectively. (February 2013)  
Qualcomm Snapdragon, Qualcomm RF360, Qualcomm Adreno, Qualcomm Snapdragon StudioAccess, Qualcomm Quick Charge, Qualcomm SecureMSM and Qualcomm Hexagon are products of Qualcomm Technologies, Inc. Qualcomm Reference Design is a program of Qualcomm Technologies, Inc.



Snapdragon 400 series processors are designed to support a high-value combination of advanced features, superior performance, robust connectivity and all-day battery life to high-volume smartphones.

## FEATURES & SPECIFICATIONS<sup>5</sup>

### CPU

- + Quadcore ARM Cortex A53 up to 1.4GHz

### GPU

- + Adreno 308 GPU: OpenGL ES 3.0<sup>2</sup>, OpenCL<sup>3</sup>, DirectX, content security, and decreased power consumption<sup>4</sup>

### DSP

- + Hexagon 536 256KB

### Memory

- + LPDDR3@672MHz
- + eMMC 5.1
- + SD 3.0 (UHS-I)

### Display

- + Up to 1080p, 60 FPS
- + Qualcomm® Low-Picture Enhancement and Qualcomm® TruPalette™ display features

### Video

- + 1080p@30fps playback
- + FHD Native HEVC playback
- + HD H.264 capture

### Snapdragon X9 LTE Modem

- + X9 LTE with 2x20Mz carrier aggregation
- + Cat 7 downlink, up to 300 Mbps; up to 4x 75Mbps LTE streams
- + Cat 13 uplink, up to 150 Mbps; up to 2x 75Mbps LTE streams
- + Snapdragon Upload+
- + Up to 64-QAM
- + Snapdragon All Mode LTE FDD, LTE TDD, WCDMA (DB-DC-HSDPA, DC-HSUPA), TD-SCDMA, EV-DO, CDMA1x, and GSM/EDGE
- + Qualcomm RF360™ front end solution
- + Support for LTE Broadcast, LTE multimode dual SIM and VoLTE with HD Voice and SRVCC

### RF Front-End

- + Cost-optimized, flexible RF front-end solutions with Qualcomm RF360
- + Snapdragon All Mode for China and emerging regions
- + Antenna Switches for TruSignal Multi-Antenna Boost
- + 3rd generation 28nm RF Transceiver

### Connectivity

- + Integrated 802.11ac Multi-User MIMO (MU-MIMO)
- + Qualcomm® IZat™ location services Gen8C
- + USB 2.0
- + Bluetooth 4.1

### Power Management

- + Quick Charge 3.0 technology

### Qualcomm Audio

- + Flucence™ HDv6 with noise cancellation technology and SVA
- + Crystal clear voice calls

### Camera

- + Dual ISPs supporting up to 16MP
- + 1080p30 HEVC playback
- + 1080p30 H.264 capture

### Security

- + Qualcomm Haven™ security suite



<sup>2</sup> Product is based on a published Khronos specification and is expected to pass the Khronos Conformance Testing Process when available. Current conformance status can be found at [www.khronos.org/conformance](http://www.khronos.org/conformance)

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<sup>4</sup> As compared to its predecessor, the Adreno 305 GPU in the Snapdragon 400 processor

<sup>5</sup> Certain optional features available subject to Carrier and OEM selection for an additional fee.