

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

To learn more visit: snapdragon.com

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

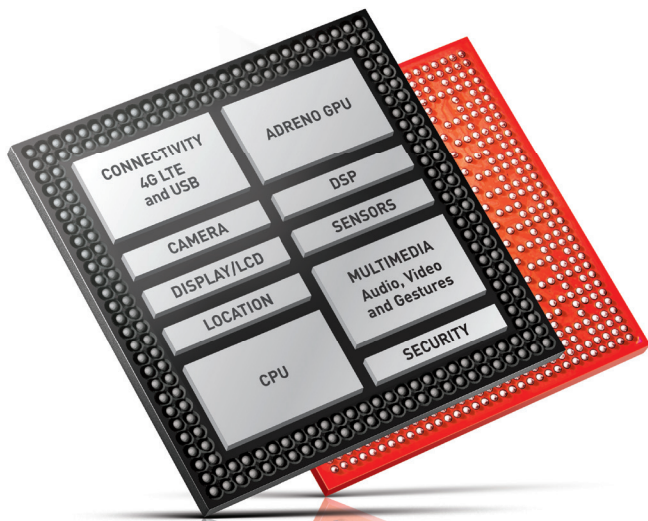
Up to 3x faster downloads of photos, multimedia and other content, in crowded Wi-Fi networks



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 



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 & SPECIFICATIONS⁵

CPU

- + Quadcore ARM Cortex A53 up to 1.4GHz

GPU

- + Adreno 308 GPU: OpenGL ES 3.0², OpenCL³, DirectX, content security, and decreased power consumption⁴

DSP

- + Hexagon 536 256KB

Memory

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

Display

- + Up to 1080p, 60 FPS
- + Qualcomm® EcoPix™ 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

- + Fluence™ 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



² 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

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⁴ As compared to its predecessor, the Adreno 305 GPU in the Snapdragon 400 processor

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