QUALCOMM® SNAPDRAGON™

625

PROCESSOR

The First 14nm 600-tier Snapdragon Processor

The Snapdragon 625 processor offers many advantages:

+ 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® TruSignal™ Antenna Boost

+ Professional camera features and DSLR-like image quality with dual image signal processors

+ Qualcomm® Hexagon™ 546 DSP provides battery-efficient enhancements to audio, video, and computer vision use cases

+ Qualcomm® Adreno™ 506 PC-class graphics with support for advanced APIs and Hardware Tessellation

+ Snapdragon sensor core supports new always-on use cases at reduced power levels and cost

+ Software leveragable across other Snapdragon 600 series processors

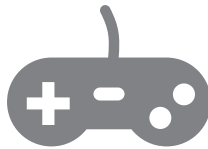**To learn more visit: snapdragon.com**

USER EXPERIENCES

Long Battery Life

35% lower day of use power[1] with the first 14nm Snapdragon 600 tier processor

Enhanced Photography

Dual image signal processors (ISPs) support leading mobile camera experiences, improved dynamic range, enhanced AutoFocus performance and computational photography

Advanced Graphics and 3D Gaming

Adreno 506 GPU supports avid mobile gamers with realistic 3D imagery and developers with support for the latest graphics APIs

4K Ultra HD video

Premium 4K video with HEVC capture and playback for optimal balance of quality and bandwidth
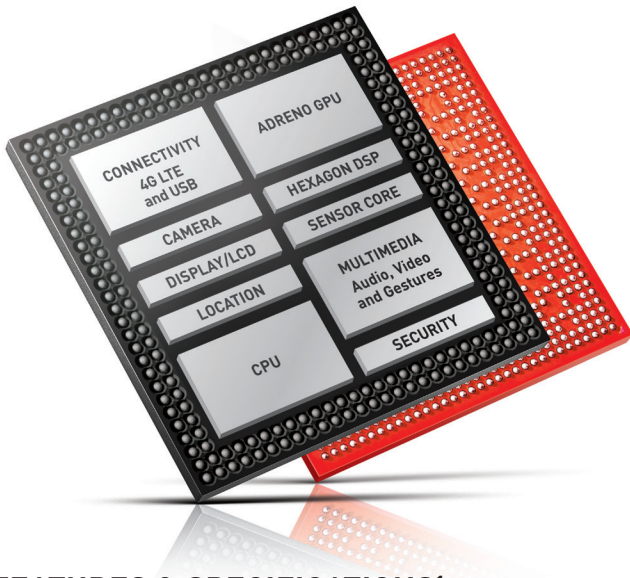
Integrated X9 LTE

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

Qualcomm® snapdragon

Snapdragon 600 series high-tier processors are designed to support a high-value combination of advanced features, leading performance, robust connectivity and all-day battery life in leading devices.

FEATURES & SPECIFICATIONS[1]

CPU

+ Octa -core 64-bit ARM® Cortex™-A53 up to 2.0GHz

GPU

+ Adreno 506 GPU: OpenGL ES 3.1, OpenCL 2.0 Full, DirectX 12, GPU Tessellation, Geometry Shading

DSP

+ Hexagon 546 DSP

Memory

+ LPDDR3

Display

+ Primary Full HD 1080p 60fps UI

+ Qualcomm® EcoPix™ and Qualcomm® TruPalette™ support

+ Qualcomm® improveTouch™ support

Qualcomm Aqstic™

+ Crystal clear VoLTE w/ Ultra HD Voice (EVS)

+ High fidelity music playback 24bit/192kHz

+ Dolby 5.1 support

RF Front-End

+ Snapdragon All Mode global/ regional solutions with Qualcomm RF360™ front-end solution

+ QFE2550 antenna impedance tuner for TruSignal Antenna Boost

+ Aperture tuning

+ 3rd generation 28nm RF Transceiver

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

Connectivity

+ Integrated 802.11ac Multi-User MIMO (MU-MIMO)

+ Qualcomm® IZat™ location technology Gen8C Lite

+ USB 3.0

+ BT4.1 + BLE

Camera

+ Dual ISPs support up to 24MP

Video

+ 4K@30fps HEVC capture and playback

Security

+ Qualcomm Haven™ security platform

Fast Charging

+ Qualcomm® Quick Charge™ 3.0

Qualcomm snapdragon™