The “X5 LTE with HD” Processor

The Snapdragon 415 processor offers many advantages:

+ Integrated X5 LTE
  - Support for Cat 4 download speeds up to 150 Mbps
  - Support for Global Mode and advanced modem technologies, including LTE-FDD, LTE-TDD, CDMA, UMTS/HSPA+ and TD-SDCMA

+ Octa-core CPU performance — based on ARM® Cortex®-A53 CPUs designed to deliver a robust multimedia experience

+ 5.1 surround sound with Dolby and DTS

+ Qualcomm® Adreno™ 405 Graphics with support for advanced APIs and Hardware Tessellation

+ Qualcomm® Reference Design availability for all Snapdragon 415 features

To learn more visit:
snapdragon.com or mydragonboard.org

Integrated X5 LTE
Integrated 4G LTE with support for fast Cat 4 speeds (up to 150Mbps) and for Qualcomm RF360™ front end solution

Hi-Res Camera and smooth HD display
Snapdragon 415 processor captures incredible night shots, with great image quality for low-light photography, at up to 13 MP

Record and playback 1080p videos
Multi-core processing and advanced video codec offer high-res video capturing and editing while conserving battery power

Stunning 3D gaming
Adreno 405 GPU supports avid online gamers with eye-catching 3D imagery and support for the latest APIs

Qualcomm® Quick Charge™ technology
Snapdragon 415 processor supports Quick Charge 2.0 technology, so your device can charge up to 75% faster than conventional methods*

*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 Adreno, Qualcomm RF360 and Qualcomm Quick Charge are products of Qualcomm Technologies, Inc. Qualcomm Reference Design is a program of Qualcomm Technologies, Inc.
The Snapdragon 415 processor re-defines the standard for entry-level mobile devices with 64-bit octacore architecture, comprehensive HD, Adreno 400 series graphics and fast LTE connectivity.

FEATURES & SPECIFICATIONS

**Modem**
- Integrated X5 LTE Global Mode modem, supporting LTE FDD, LTE TDD, WCDMA (3G-HSDPA, DC-HSUPA), CDMA1x, EV-DO, TD-SCDMA and GSM/EDGE
- Cat 4 download speeds of up to 150 Mbps
- Qualcomm RF360 front end solution
- LTE Broadcast and LTE multimode dual SIM

**Connectivity**
- 802.11ac (2.4/5.0GHz)
- Multi-User MIMO (MU-MIMO)
- Qualcomm® IZat™ location technology Gen8C Lite
- USB 2.0
- BT4.1 + BLE

**GPU**
- Adreno 405 GPU: OpenGL ES 3.1, OpenCL, DirectX 11.2, HW Tessellation, Geometry Shading

**DSP**
- Qualcomm® Hexagon™ V50 DSP

**Memory**
- LPDDR3@667MHz
- eMMC 4.5
- SD 3.0 (UHS-I)

**Display**
- Up to HD 720p@60fps
- External displays supported

**Video**
- 1080p@30fps playback with native HEVC
- FHD H.264 capture

**Qualcomm Audio**
- Fluence™ technology with Noise Cancellation and Echo Cancellation
- Crystal clear voice calls

**Camera**
- Single ISPs supports up to 13MP

**CPU**
- Octa ARM® Cortex™ A53 up to 1.4GHz

**Security**
- Qualcomm® Snapdragon StudioAccess™ technology
- Trustzone
- Qualcomm® SecureMSM™ technology

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

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