### QUALCOMM<sup>®</sup> SNAPDRAGON<sup>™</sup>



## The "4G LTE for Everyone" Processor

## The Snapdragon 212 processor offers many advantages:

- + Integrated X5 LTE
  - LTE Advanced Carrier Aggregation up to 2x10 MHz in the downlink
  - Support for Category 4 speeds of up to 150 Mbps download, 50 Mbps upload
  - LTE dual SIM (DSDS)
- + Broad selection of RF options, support for Qualcomm RF360<sup>™</sup> CMOS PA, antenna switch, antenna matching tuner, and power tracker
- + Up to 8MP Camera with superior 3A algorithms, zero shutter lag
- + Qualcomm<sup>®</sup> Adreno<sup>™</sup> 304 Graphics with support for advanced APIs
- + Qualcomm Reference Design availability for all Snapdragon 212 features
- + Content and platform security using Qualcomm® Snapdragon StudioAccess™ technology and Qualcomm® SecureMSM™ foundation
- Competitive quad-core CPU performance — ARM<sup>®</sup> quad Cortex<sup>®</sup>-A7 CPUs are designed to enable an improved user experience

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

### USER EXPERIENCES



## 4G LTE for Everyone

Integrated X5 LTE with support for Cat 4 speeds (up to 150Mbps) and support for Qualcomm RF360<sup>™</sup> front end solution for lightning-fast download speeds in budget, entry-level smartphones and tablets



## HD video content on the fly

With native HEVC, maximize device storage and watch streaming HD content as quick as you can click the link



# Immersive online 3D gaming

Adreno 304 GPU enables avid online gamers with eye-catching 3D imagery and support for the latest APIs



## Qualcomm<sup>®</sup> Audio

Differentiating audio experiences with Fluence<sup>™</sup> HD (Noise Cancellation, Qualcomm® Snapdragon<sup>™</sup> Voice Activation) and Qualcomm<sup>™</sup> Snapdragon<sup>™</sup> Voice+



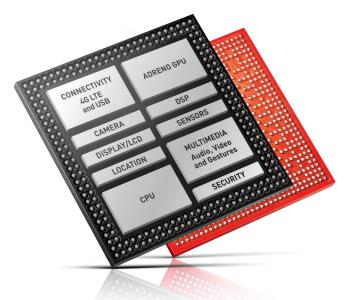
# All day battery life and fast-charging

Tight integration and support for Qualcomm<sup>®</sup> Quick Charge<sup>™</sup> 2.0 technology, for up to 75% faster charging<sup>1</sup>



<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, Qualcomm Snapdragon Voice Activation, Qualcomm Snapdragon Voice+ and Fluence are products of Qualcomm Technologies, Inc.



The Snapdragon 212 processor brings 4G LTE to everyone. With integrated 4G LTE and a combination of features and performance without compromising battery life, budget mobile devices will never be the same.

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

#### CPU

+ Quad ARM Cortex A7 up to 1.3GHz

#### GPU

 + Adreno 304 GPU: OpenGL ES 3.0<sup>2</sup>, OpenCL<sup>3</sup>, DirectX, content security, and decreased power consumption<sup>4</sup>

#### DSP

+ QDSP6 DSP

#### Memory

- + LPDDR2/LPDDR3@533MHz
- + eMMC 4.5
- + SD 3.0 (UHS-I)

#### Display

- + Up to 720p
- + External displays supported

#### Modem

- Integrated X5 LTE Global Mode modem, supporting LTE FDD, LTE TDD, WCDMA (3C-HSDPA, DC-HSUPA), CDMA1x, EV-DO Rev.
  B, TD-SCDMA and GSM/EDGE
- + Cat 4 download speeds of up to 150 Mbps with LTE Advanced 2x10 MHz Carrier Aggregation
- + LTE Broadcast and LTE multimode dual SIM

#### RF

+ Second Gen RF and Qualcomm RF360<sup>™</sup> front end solution and 3rd generation 28nm RF Transceiver for world mode bands, lower power and PCB & BOM reduction

#### Video

- + 1080p@30fps playback
- + Up to 1080p playback with H.264 (AVC) and H.265 (HEVC)
- + Up to 720p capture with H.264 (AVC)

#### **Power Management**

+ Quick Charge 2.0 Support

#### **Qualcomm Audio**

- + Fluence HD with Noise Cancellation and SVA
- + Crystal clear voice calls

#### Camera

+ Single ISPs can support 320MP/sec throughput and image sensors up to 8MP

#### Connectivity

- + 802.11n (2.4GHz)
- + Qualcomm<sup>®</sup> IZat<sup>™</sup> location technology Gen8C
- + USB 2.0
- + BT4.1 + BLE

#### Security

- + SecureMSM foundation
- + Snapdragon StudioAccess technology



<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

- <sup>3</sup> Product is based on a published Khronos Specification, and is expected to pass the Khronos Conformance Testing Process. Current conformance status can be found at www.khronos.org/conformance
- <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.

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