

QUALCOMM®
SNAPDRAGON™

412

PROCESSOR

A “Ubiquitous 4G LTE Processor”

The Snapdragon 412 processor offers many advantages:

- + Integrated X5 LTE
 - Support for Category 4 speeds up to 150 Mbps download, and up to 50 Mbps upload
 - Support for LTE dual SIM, dual standby (DSDS)
- + Broad selection of RF options, including support for the Qualcomm RF360™ solution
- + Superior CPU architecture that is both 32-bit and 64-bit capable designed to enable an improved user experience
- + 13MP camera support with Wavelet Noise Reduction and JPEG Decoder done in hardware
- + Qualcomm® Adreno™ 306 Graphics with support for advanced APIs, including OpenGL ES 3.0, DirectX, and OpenCL
- + QRD Option for a comprehensive development platform
- + Content and platform security using Qualcomm® Snapdragon StudioAccess™ technology and Qualcomm® SecureMSM™ foundation

To learn more visit:

snapdragon.com or mydragonboard.org

USER EXPERIENCES



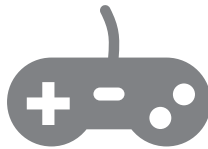
Access to Fast 4G LTE networks

Integrated X5 LTE with support for Cat 4 speeds (up to 150Mbps) and support for Qualcomm RF360™ front end solution for lightning-fast download speeds on a broad selection of networks around the globe



Capture and playback videos and images at high-res

Snapdragon 412 processor supports up to 1080p resolutions and 13 MP camera



Play multiplayer 3D online games in real time

Adreno 306 GPU facilitates 3D gaming with support for latest APIs



Connect to multiple networks with dual SIM support

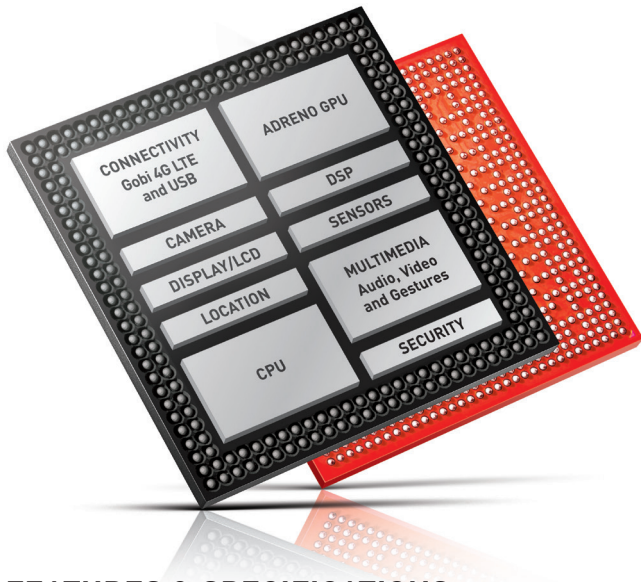
Support for dual SIM, dual standby (DSDS) for more network and mobile plan choices



All day battery life and easier, faster charging

Tight integration and support for Qualcomm® Quick Charge™ 1.0 technology

Qualcomm®
snapdragon 



When you need advanced processors for high-volume, mainstream mobile devices, the Snapdragon 412 processor enables comprehensive smartphone and tablet design solution for a powerful combination of features and performance and battery efficiency.

FEATURES & SPECIFICATIONS

CPU

- + Up to 1.4GHz with both 32-bit and 64-bit support

GPU

- + Adreno 306 GPU: OpenGL ES 3.0, OpenCL, DirectX, content security, and decreased power consumption¹

DSP

- + QDSP6 DSP

Memory

- + LPDDR2/LPDDR3@600MHZ
- + eMMC 4.5
- + SD 3.0 (UHS-I)

Display

- + 1920x1200
- + 1080p external displays supported
- + 720p Miracast™ Support

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 LTE download speeds up to 150 Mbps, and upload speeds up to 50Mbps
- + Support for next-generation calling and messaging, including VoLTE with SRVCC, HD voice, native video calling, Wi-Fi calling with call continuity to LTE, and advanced messaging with Rich Communication Service (RCS)
- + LTE Broadcast and LTE multimode dual SIM, dual standby (DSDS)

RF

- + Next Gen RF including 2nd gen 28nm RF transceiver and Qualcomm RF360™ for 7-mode bands, lower power and PCB & BOM reduction

Multimedia

- + 1080p@30fps
- + FHD HEVC playback
- + FHD H.264 capture
- + Snapdragon Voice Activation
- + 5.1 surround sound with Dolby and DTS

Camera

- + Single ISPs can support 1.5GP/s throughput and image sensors up to 13MP

Connectivity

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

Security

- + SecureMSM foundation
- + Snapdragon StudioAccess technology

Qualcomm®
snapdragon 

¹ As compared to its predecessor, the Adreno 305 GPU in the Snapdragon 400 processor