QUALCOMM® SNAPDRAGON™

610

PROCESSOR

The "64-bit Connected Multimedia" Processor

The Snapdragon 610 processor offers many advantages:

+ 64-bit processing

+ Quad 1.7GHz ARM® Cortex™ A53 CPU

+ Integrated Qualcomm® Gobi 4G LTE modem, supporting Cat 4 data speeds

+ Support for LTE-Broadcast, LTE multimode multi-SIM and Qualcomm RF360™ front end solution

+ Integrated 3G technologies, including HSPA+ (up to 42Mbps), CDMA, and TD-SCDMA

+ Software and pin compatibility with the Snapdragon 410 processor

+ Integrated Qualcomm® Adreno™ 405 GPU brings premium tier graphics quality to the Snapdragon high tier

+ HEVC H.265 hardware decoding for bandwidth and power efficiency

+ High-performance ISP (image signal processor) offers support for up to 21MP image sensors

+ Tight system integration and optimization for superior performance and power efficiency
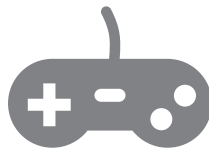
To learn more visit:
snapdragon.com or **mydragonboard.org**

USER EXPERIENCES SUPPORTED

Capture and edit HD 1080p video more efficiently

Multi-core processing and advanced video codec offer high-res video capturing and editing using less battery power

Surprisingly realistic graphics and gaming

Integrated Adreno 405 GPU brings premium tier graphics quality and capabilities to the Snapdragon high tier

Stay connected and get faster downloads

Integrated Gobi 4G LTE and Cat 4 allow download speeds of up to 150 Mbps

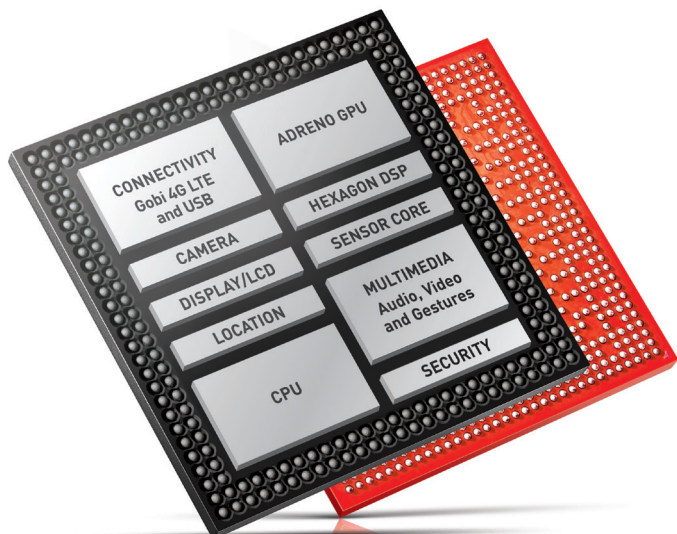### Capture and send sharp camera images quickly

Support for up to 21 megapixel photos and super-fast connectivity, from 4G LTE to WiFi

Efficient, high-quality video streaming

Embedded HEVC H.265 hardware decoder and integrated Qualcomm® VIVE™ 802.11ac WiFi and Bluetooth 4.0 solutions

Qualcomm® snapdragon

The Snapdragon 610 processor raises the bar for high-tier mobile device design with 64-bit capable quad-core CPU architecture, integrated 4G LTE and advanced multimedia capabilities.

FEATURES & SPECIFICATIONS

CPU

+ Quad 1.7GHz ARM® Cortex™ A53 CPU

GPU

+ Adreno 405 GPU: OpenGL ES 3.0, DirectX 11.2, OpenCL Full Profile, plus hardware tessellation and geometry shading

DSP

+ Qualcomm® Hexagon™ V50 DSP

Display

+ Full HD@60fps primary display

+ Full HD@60fps external display, wireless 1080p@60fps with Miracast

+ 3:1 Frame Buffer Compression ratio

Memory

+ Single channel LPDDR3 800MHz

+ eMMC 4.51 ratio

Modem

+ Integrated Gobi 4G LTE World Mode, supporting LTE FDD, LTE TDD, WCDMA (DC-HSPA+, DC-HSUPA), CDMA1x, EV-DO Rev. B, TD-SCDMA and GSM/EDGE

+ Cat 4 speeds of up to 150 Mbps

+ LTE-Broadcast and LTE multimode multi-SIM (TSTS, DSDA and DSDS)

RF

+ 3rd gen power efficient LTE multimode transceiver with Qualcomm Technologies' integrated and system optimized Qualcomm RF360™ front end solution for world mode bands, lower power and PCB reduction

Security

+ Qualcomm® Snapdragon StudioAccess™ technology and SecureMSM™ digital rights management portal

Multimedia

+ 1080p@60fps playback, 1080p@30fps capture

+ Hardware HEVC H.265 decode

+ DASH support

+ Support for Low Power Snapdragon Voice Activation

+ 5.1 surround sound with Dolby and DTS

Camera

+ ISP can support up to 600MP/sec throughput and image sensors up to 21MP

Connectivity

+ VIVE 1-stream 802.11n/ac

+ Qualcomm® IZat™ location services Gen8C

+ USB 2.0

+ Bluetooth Smart v4.0

Qualcomm® snapdragon™