QUALCOMM® SNAPDRAGON™ 810 PROCESSOR

The "Ultimate Connected Mobile Computing Processor"

The Snapdragon 810 processor offers many advantages:

+ Integrated 4G LTE Advanced Category 6 World Mode modem with speeds of up to 300 Mbps
+ 3x20MHz Carrier aggregation up to 60 MHz
+ Two clusters of 64-bit CPUs are designed to support an improved user experience
+ Combined 14-bit dual image signal processors (ISPs) support 1.2GP/s throughput and image sensors up to 55 MP
+ HEVC H.265 Video with hardware decoding and encoding for bandwidth and power efficiency
+ Tight system integration and optimization for superior performance and power efficiency
+ Integrated sensor core for advanced application support and sensor management

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

USER EXPERIENCES SUPPORTED

Streaming 4K Ultra HD video at home and on the go

3x20MHz fully integrated Carrier Aggregation supports connection intensive use cases like 4K streaming

Capture and share sharper camera images faster

Dual image signal processors and enhanced camera software supports higher quality photos

Immersive 3D gaming on your device and 4K TV

New Qualcomm® Adreno™ 430 GPU and display engine enable 3D gaming on 4K displays

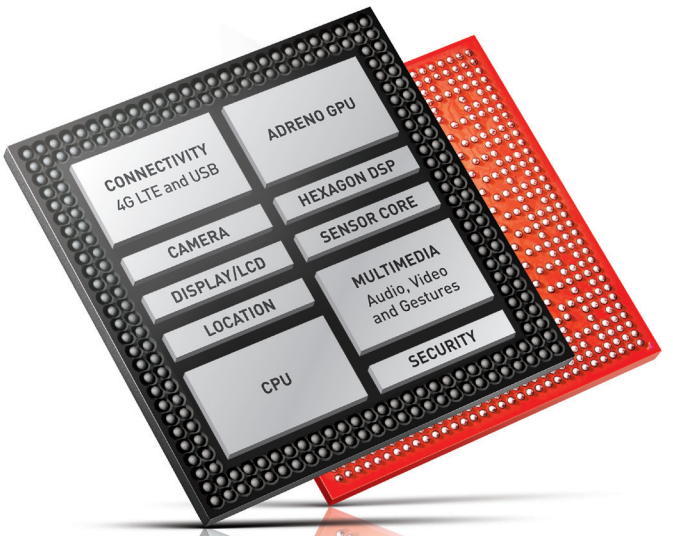
Stream higher quality video using less bandwidth

Support for hardware based HEVC playback and capture at 4K resolution supports power efficient 4K streaming and uploads

All day battery life and easier, faster charging

Tight integration and support for Qualcomm® Quick Charge™ 2.0 technology and Qualcomm® WiPower™ technology

Qualcomm® snapdragon™



When you need premium tier mobile computing capability, the Snapdragon 810 processor offers highly advanced features, performance and power-efficient design.

FEATURES & SPECIFICATIONS

CPU

+ 4x4 64 bit CPU

GPU

+ Adreno 430 GPU: OpenGL ES 3.1[1], OpenCL1.2 Full[2], DX11.2, content security, plus hardware tessellation, geometry shaders, programmable blending and decreased power consumption[3]

DSP

+ Qualcomm® Hexagon™ QDSP V56 DSP

Display

+ 4Kx2K@60fps primary display + 4Kx2K@30fps external display with HDMI 1.4a or wireless 1080p@60fps with Miracast
+ 3:1 Frame Buffer Compression ratio

Memory

+ LPDDR4 2x32@1600MHz
+ eMMC 5.0

Modem

+ Integrated 4G LTE Advanced CAT6 World Mode, supporting LTE FDD, LTE TDD, WCDMA (DC-HSUPA, DC-HSPA+), CDMA1x, EV-DO Rev. B, TD-SCDMA and GSM/EDGE
+ CAT6 speeds of up to 300 Mbps with support for up to 3x20 MHz carrier aggregation on LTE FDD and LTE TDD
+ LTE-Broadcast, LTE multimode dual-SIM (DSDS and DSDA) and HD VoLTE with SRVCC

RF

+ 4th gen power efficient LTE multimode transceiver (WTR3925) with Qualcomm Technologies, Inc.'s integrated and system optimized Qualcomm RF360™ front end solution for world mode bands and lower power

Sensor Core

+ Supports more accurate, low-power, always on sensors

Multimedia

+ 4Kx2K@30fps, 1080p@120fps
+ Hardware HEVC encode and decode
+ DASH support
+ Next Gen codec (WCD9330) support for Low Power Snapdragon Voice Activation
+ 11.1 surround sound with Dolby and DTS

Camera

+ Combined 14-bit dual ISPs can support 1.2GP/s throughput and image sensors up to 55MP

Connectivity

+ Qualcomm® VIVE™ 2-stream 802.11n/ac technology with Multi-user MIMO
+ Qualcomm® IZat™ location services Gen8C
+ USB 3.0/2.0
+ BT4.1

Security

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

Qualcomm® snapdragon™

[1] 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.
[2] 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.
[3] As compared to its predecessor, the Adreno 420 GPU in the Snapdragon 805 processor