QUALCOMM® SNAPDRAGON™

425

PROCESSOR

The Leading Entry Level Processor

The Snapdragon 425 processor offers many advantages:

+ Integrated X6 LTE
  • LTE Advanced Carrier Aggregation up to 2x10 MHz in the downlink
  • Support for Category 4 download speeds of up to 150 Mbps
  • Enhanced Category 5 uplink speeds up to 75 Mbps with 64-QAM support
  • LTE dual SIM (DSDS)

+ Purpose-built Qualcomm RF360™ front-end solutions for implementing Snapdragon All Mode for China and emerging regions

+ Qualcomm® Hexagon™ DSP provides battery-efficient enhancements to audio, video, and computer vision use cases

+ Dual ISPs supporting up to 16MP Camera with enhanced auto-focus, zero shutter lag

+ Qualcomm® Adreno™ 308 Graphics with HD display support @ 60fps

+ Qualcomm® Reference Design availability for all Snapdragon 425 features

+ Content and platform security using Qualcomm® Snapdragon StudioAccess™ technology and Qualcomm® SecureMSM™ foundation

To learn more visit: snapdragon.com

USER EXPERIENCES

Faster LTE upload speeds for faster sharing of your files

Integrated X6 LTE boosts supported uplink speeds all the way up to 75 Mbps, sending your photos and videos that much faster

Ultra-low power operation

Hexagon DSP enables battery-efficient enhancements to a variety of applications including music, audio, video and computer vision

Capture and share sharper camera images fast

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

Advanced 802.11ac Wi-Fi with MU-MIMO

Up to 3x faster downloads of photos, multimedia and other content, in crowded Wi-Fi networks
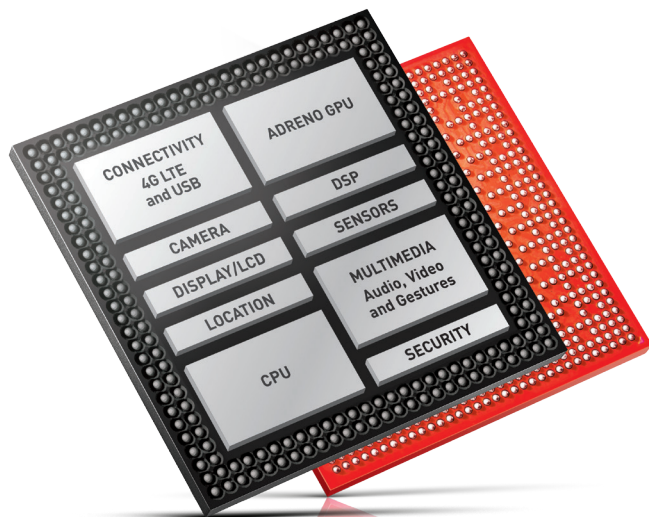
All day battery life and fast-charging

Tight integration and support for Qualcomm® Quick Charge™ 2.0 technology, for up to 75% faster charging[1]

Qualcomm snapdragon

Snapdragon 400 series processors are designed to support a high-value combination of advanced features, superior performance, robust connectivity and all-day battery life to high-volume smartphones.

FEATURES & SPECIFICATIONS[5]

CPU
+ up to 1.4GHz

GPU
+ Adreno 308 GPU: OpenGL ES 3.0[2], OpenCL[3], DirectX, content security, and decreased power consumption[4]

DSP
+ Hexagon v536 256KB

Memory
+ LPDDR3@667MHz
+ eMMC 5.1
+ SD 3.0 (UHS-I)

Display
+ Up to 1080p, 60 FPS
+ Qualcomm® Low-Picture Enhancement and Qualcomm® TruPalette™ support

Video
+ 1080p@30fps playback
+ FHD Native HEVC playback
+ HD H.264 capture

Modem
+ Integrated X6 LTE modem with Snapdragon All Mode, supporting LTE FDD, LTE TDD, WCDMA (DC-HSDPA, 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
+ Cat 5 upload speeds of up to 75-Mbps with support for 64-QAM
+ Pairs with WTR2965 cost-optimized RF transceiver for global carrier aggregation
+ LTE Broadcast, dual SIM dual standby (DSDS), VoLTE with HD Voice and Ultra HD Voice (EVS), Wi-Fi calling with call continuity
+ Supports Qualcomm® TruSignal™ Multi-Antenna Boost (antenna switch diversity)

RF Front-End
+ Cost-optimized, flexible RF front-end solutions with Qualcomm RF360
+ Snapdragon All Mode for China and emerging regions
+ Antenna Switches for TruSignal Multi-Antenna Boost
+ 3rd generation 28nm RF Transceiver

Connectivity
+ Integrated 802.11ac Multi-User MIMO (MU-MIMO)
+ Qualcomm® IZat™ location technology Gen8C
+ USB 2.0
+ BT4.1 + BLE

Power Management
+ Quick Charge 2.0 Support

Qualcomm Audio
+ Fluence™ HDv6 with Noise Cancellation and SVA
+ Crystal clear voice calls

Camera
+ Dual ISPs supporting up to 16MP
+ 1080p30 HEVC playback
+ 1080p30 H.264 capture

Security
+ Qualcomm Haven™ security platform