

**QUALCOMM®
SNAPDRAGON™**

636

MOBILE PLATFORM

Snapdragon 636 mobile platform advancements:

- + Qualcomm Spectra™ 160 Camera ISP: Dual 14-bit ISPs support up to 24MP single or dual 16MP cameras for the ultimate photography and videography experience
- + Qualcomm® Adreno™ 509 GPU: Better graphics and enhanced gaming performance¹ for lifelike visuals and more efficient rendering of advanced 3D graphics
- + Qualcomm® Hexagon™ DSP designed to provide battery-efficient enhancements to audio and video use cases, and more
- + Snapdragon X12 LTE modem: Industry leading connectivity with LTE download speeds up to 600 Mbps and integrated 802.11ac Wi-Fi with MU-MIMO
- + Qualcomm® Kryo™ 260 CPU: Up to 40% higher CPU performance* optimized across 4 performance and 4 efficiency cores
- + Qualcomm® Quick Charge™ 4 technology: 20% faster, 30% more efficient than previous generation, charge from zero to 50% in 15 minutes³
- + Pin and software compatible with Snapdragon 660 and 630
- + Snapdragon Neural Processing Engine (NPE) helps developers determine where best to run their deep neural networks on device for optimal performance and power consumption.

To learn more visit: snapdragon.com

User Experiences



Outstanding image quality

The 14-bit Qualcomm Spectra 160 ISP supports capture of up to 24 megapixels with zero shutter lag, and offers smooth zoom, fast autofocus and true-to-life colors for outstanding image quality.



Enhanced graphics and 3D gaming

With improved performance¹, Adreno 509 GPU supports lifelike visuals and more efficient rendering of advanced 3D graphics. Developers gain access to the latest graphics APIs.



Faster, consistent connection²

With LTE downlink speeds up to 2X faster², the Snapdragon X12 modem is engineered to quickly download a favorite TV show or an entire album worth of songs in more locations, with greater consistency.



On device Artificial Intelligence

Qualcomm® Artificial Intelligence Platform supports high performance, intelligent, on-device processes, utilizing heterogenous compute capabilities to power immersive and engaging experiences.



Power when it's needed most

Do more throughout the day: stream music and videos, play games, talk, all while getting extended battery life. When it's time to recharge, Quick Charge 4 gets it done super-fast.

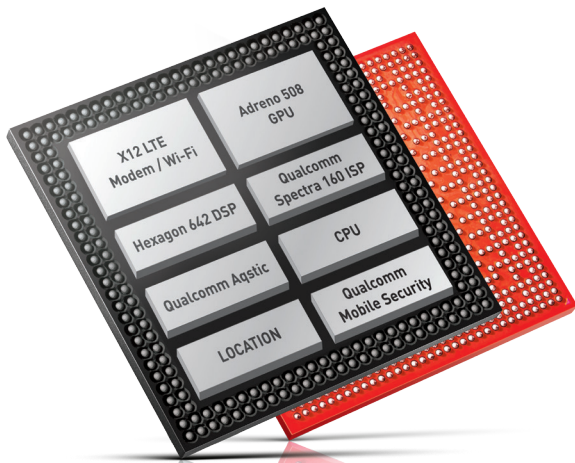
**Qualcomm®
snapdragon** 

¹ As Compared to Snapdragon 630

² As Compared to Snapdragon 626

³ Quick Charge is designed to increase the battery charge of a device by up to 50% in 15 minutes. Actual results may vary depending on device design.

Qualcomm Snapdragon, Qualcomm Spectra, Qualcomm Adreno, Qualcomm Hexagon, Qualcomm TruSignal, Qualcomm Artificial Intelligence platform and Qualcomm Quick Charge are products of Qualcomm Technologies, Inc.



The Snapdragon 636 mobile platform supports a leap in performance, engineered to allow enhanced user experiences and mobile industry-leading battery performance

FEATURES & SPECIFICATIONS¹

GPU

- + Adreno 509 GPU
- + OpenGL ES 3.2, OpenCL 2.0 full, Vulkan, DX12
- + Caffe and Tensorflow are supported via Snapdragon Neural Processing Engine (NPE)

DSP

- + Hexagon DSP with Qualcomm All-Ways Aware™ Technology

Display

- + FHD+ resolution
- + External display support via DisplayPort over Type-C
- + Qualcomm® TruPalette™ pixel processing technologies
- + Qualcomm® Low-Power Picture Enhancement power saving features

Audio

- + Qualcomm Aqstic™ audio codec and speaker amplifier
- + Qualcomm® aptX™ audio playback with support for aptX Classic and HD

CPU

- + 8x Kryo 260 CPU
- + Up to 1.8 GHz
- + 14nm process technology
- + Caffe and Tensorflow are supported via Snapdragon Neural Processing Engine (NPE)

Camera

- + Qualcomm Spectra 160 ISP
- + Dual 14-bit ISPs
- + Up to 16 MP dual camera
- + Up to 24 MP single camera
- + Qualcomm® Clear Sight™ camera features, Hybrid Autofocus, Optical Zoom, Zero Shutter Lag

Video

- + Up to 4K UltraHD capture @ 30 fps
- + Up to 4K UltraHD playback @ 30 fps
- + H.264 (AVC), H.265 (HEVC), VP9

Memory

- + LPDDR4/4x, dual channel
- + Up to 1333MHz, 8GB RAM
- + eMMC and UFS

Charging

- + Quick Charge 4 technology

Security

- + Qualcomm® Mobile Security
 - Qualcomm® Processor Security
 - Application Security
 - Camera Security

RF Front End

- + Qualcomm® Signal Boost adaptive antenna tuning
- + High-power transmit (HPUE)
- + Envelope tracking technology

Modem

- + Snapdragon X12 LTE modem
- + Downlink: LTE Cat 12 up to 600 Mbps, 3x20 MHz carrier aggregation, up to 256-QAM
- + Uplink: LTE Cat 13 up to 150 Mbps, Snapdragon Upload+ (2x20 MHz carrier aggregation, up to 64-QAM)
- + All Mode features with support for all seven cellular modes, and support for:
 - VoLTE with SRVCC to 3G and 2G, HD and Ultra HD Voice (EVS), CSFB to 3G and 2G
 - Voice over Wi-Fi (VoWiFi) with LTE call continuity

Connectivity

- + Wi-Fi integrated 802.11ac 1x1 with MU-MIMO
- + 2.4 GHz, 5 GHz
- + Bluetooth 5

Location

- + GPS, Glonass, BeiDou, Galileo, QZSS, and SBAS
- + Low Power Geofencing and Tracking, Sensor-assisted Navigation



¹ Certain optional features available subject to Carrier and OEM selection for an additional fee.

Qualcomm aptX is a product of Qualcomm Technologies International, Ltd. Qualcomm Aqstic, Qualcomm All-ways Aware, Qualcomm TruPalette, Qualcomm Mobile Security, Qualcomm Low-Power Picture Enhancement, Qualcomm Clear Sight, Qualcomm Signal Boost and Qualcomm Processor Security are products of Qualcomm Technologies, Inc.

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