

# Qualcomm® Snapdragon™ 439 Mobile Platform



## Snapdragon 439 Mobile Platform advancements

- **Snapdragon X6 LTE Modem:**
  - 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
  - Dual SIM Dual VoLTE (DSDV)
  - eMBMS
- **Qualcomm® Adreno™ 505 GPU** engineered to support stunning, life-like graphics and gaming at lower power.
- **Qualcomm® Hexagon™ 536 DSP** provides battery-efficient enhancements to audio, video, and computer vision use cases.
- 12 nm process technology featuring four performance and four efficiency cores
- Purpose-built Qualcomm® RF Front End solutions for implementing Snapdragon All Mode for China and emerging regions.
- Dual ISPs supporting up to 21 MP single and 8+8 MP dual cameras with enhanced auto-focus and zero shutter lag.
- AI capable, bringing on-device processing for enhanced features
- Pin and software compatible with Snapdragon 429

To learn more visit: [snapdragon.com](http://snapdragon.com)

\* Quick Charge is designed to allow devices to charge up to four times faster than conventional charging.

Actual results may vary depending on device design.

All comparisons made are in reference to previous generation, Snapdragon 430 mobile platform. Results will vary depending on OEM implementation and other factors.

Qualcomm Snapdragon, Qualcomm Adreno, Qualcomm RF Front End, Qualcomm Hexagon and Qualcomm Quick Charge are products of Qualcomm Technologies, Inc. and/or its subsidiaries.

## Popular mobile experiences for mass market smartphone buyers

### Big Performance, Small Package

Snapdragon 439 is manufactured in 12 nanometers, engineered to deliver improved performance and big battery savings.



### Efficient Battery Consumption

A smaller, more efficient processor combined with Hexagon DSP designed to support 25% improvement in power usage, so your device can last longer in between charges.



### Do More, Longer

With a 25% improvement in CPU performance you can browse the web quickly and experience smooth scrolling.



### Capture and Share Sharper Camera Images Fast

Support for up to 21 MP camera and the dual image signal processors (ISPs) let you capture photos with zero shutter lag.



### Super-Fast Charging

Charge your device up to 4X faster than conventional methods with Qualcomm® Quick Charge™ 3.0 technology.\*



**Qualcomm**  
snapdragon

# Qualcomm

## snapdragon

### 439 mobile platform



Mix of popular features, balanced with long battery life and affordability to meet day-to-day mobile requirements.

## Features & Specifications<sup>1</sup>

### CPU

- Up to 2.0 GHz
- 12 nm process technology

### GPU

- Adreno 505 GPU: OpenGL ES 3.2, OpenCL 2.0 Full, Vulkan, DirectX 11.2, HW Tessellation, Geometry Shading

### DSP

- Hexagon 536 DSP
- Qualcomm All-Ways Aware™ technology

### Memory

- +LPDDR3

### Display

- FHD+
- 1920x1200

### Audio

- Qualcomm Aqstic™ audio technology
- Qualcomm® aptX™ audio technology

### RF Front-End

- Cost-optimized, pairs with WTR2965 transceiver for global carrier aggregation
- Snapdragon All Mode for China and emerging regions
- Antenna Switches for Qualcomm® Signal Boost Multi-Antenna Boost

### Snapdragon X6 LTE Modem

- Integrated X6 LTE Global Mode modem with 2x10 Mz carrier aggregation
- Cat 4 downlink, up to 150 Mbps; up to 2 x 75 Mbps LTE Advanced
- Cat 5 uplink, up to 75 Mbps; up to 1 x 75 Mbps LTE Advanced
- Snapdragon Upload+
- Up to 64-QAM
- Snapdragon All Mode LTE FDD, LTE TDD, WCDMA (DC-HSDPA, HSUPA), TD-SCDMA, EV-DO Rev. B, CDMA1x, TD-SCDMA and GSM/EDGE
- Support for LTE Broadcast and LTE multimode dual SIM

- Dual standby (DSDS) VoLTE with HD Voice and Ultra HD Voice (EVS), Wi-Fi calling with call continuity

### Connectivity

- Integrated 802.11ac multi-user MIMO (MU-MIMO)
- Qualcomm® Location
- USB 2.0
- Bluetooth 5.0 + BLE

### Camera

- Dual ISPs support
  - Up to 21 MP single camera
  - Up to 8+8 MP dual camera

### Video

- Up to 1080p capture (@ 30 fps) & playback

### Security

- Qualcomm® Processor Security
- Qualcomm® Content Protection

### Fast Charging

- Quick Charge 3.0 technology

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

Qualcomm All-Ways Aware, Qualcomm Processor Security, Qualcomm Content Protection, Qualcomm aptX, Qualcomm Signal Boost, Qualcomm Snapdragon Upload+, Qualcomm Snapdragon All Mode, Qualcomm Location, and Qualcomm Aqstic are products of Qualcomm Technologies Inc. and/or its subsidiaries.

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