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

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.
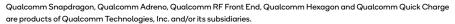
Super-Fast Charging

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

To learn more visit: snapdragon.com

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439 mobile platform

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

Features & Specifications[1]

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