

Qualcomm  
snapdragon



750G mobile platform

The Qualcomm® Snapdragon™ 750G 5G Mobile Platform brings unbridled energy to every experience. Truly global 5G, amazing on-device AI, and boosted performance combine for brilliant HDR gaming, all backed by sustainable power. Connect from virtually anywhere and play longer—this platform just keeps delivering.



### Truly global 5G

Go head-to-head against gamers around the world with multi-gigabit 5G. Conquer near or far with support for both mmWave and Sub-6 GHz frequencies. Your arsenal includes lightning-fast uploads and downloads, seamless streaming, and widespread accessibility. Let the games—and the wins—begin.

- Qualcomm® Snapdragon™ X52 5G Modem-RF System supports uninterrupted gameplay
- Ultimate flexibility with support for SA and NSA modes, TDD, FDD, and Dynamic Spectrum Sharing (DSS), plus global roaming and global multi-SIM



### Brilliant HDR gaming

Explore new worlds in over a billion shades of color with True HDR gaming. Get lost in immersive imagery with flawless graphics rendering, and stream cloud-based games at remarkably low latency via 5G. Plus, select Qualcomm® Snapdragon Elite Gaming™ features deliver stunning visuals and the latest upgrades to your competitive fingertips.

- Qualcomm® Adreno™ 619 GPU delivers up to 10% faster graphics rendering than the Snapdragon 730G
- Select Snapdragon Elite Gaming features power vivid gameplay, including Qualcomm® Game Color Plus, Adreno Updateable Drivers, and Adreno HDR Fast Blend



### Amazing on-device AI

Our leading 5th gen Qualcomm® Artificial Intelligence (AI) Engine is fortified by leveled-up performance for intuitive, long-lasting competition. The Qualcomm® Hexagon™ Tensor Accelerator pushes blazing speeds, while new CPU architectures expand efficiencies.

- Over 4 TOPS performance for up to 20% improvement over the Snapdragon 730G
- Qualcomm® Sensing Hub provides always-on environment awareness, while AI-based echo cancellation and noise suppression allows fully focused gaming
- Instantly summon your voice assistant for immediate support, even amid furious combat



### Real-time connectivity

Stay ahead of your foes with this Wi-Fi 6-ready mobile platform, featuring fast, robust connections and advanced security. Plus, dual-frequency GNSS provides 6x better GPS accuracy in dense urban areas, so you can locate your teammates while the competition is hot.

- Qualcomm® FastConnect™ 6200 Mobile Connectivity Subsystem with integrated 2x2 Wi-Fi 6-ready mobile connectivity and WPA3 security



### Sustainable power

Let those battles rage—you have the power to vanquish your enemies again and again. The mighty 8nm processor is designed to handle intense, desktop-quality gaming without sacrificing your battery in the process, while Qualcomm® Quick Charge™ 4+ Technology charges your device at ultra-high speeds for the next round.

- The Qualcomm® Kryo™ 570 CPU is up to 20% improved from the predecessor, enabling extended performance with efficiency
- Quick Charge 4+ yields an up to 50% charge in just 15 minutes\*

750G

To learn more visit  
[snapdragon.com](https://www.qualcomm.com/snapdragon)

All comparisons made are in reference to previous generation, Snapdragon 730G mobile platform. Results will vary depending on OEM implementation and other factors.

Qualcomm Snapdragon, Qualcomm Snapdragon Elite Gaming, Qualcomm Adreno, Qualcomm Game Color Plus, Qualcomm AI Engine, Qualcomm Hexagon, Qualcomm Sensing Hub, Qualcomm FastConnect, Qualcomm Quick Charge, and Qualcomm Kryo are products of Qualcomm Technologies Inc. and/or its subsidiaries.

\* 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<sup>®</sup> Snapdragon<sup>™</sup> 750G Mobile Platform

Qualcomm<sup>®</sup>  
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## SPECIFICATIONS & FEATURES

### Qualcomm AI Engine

- Adreno 619 GPU
- Kryo 570 CPU
- Hexagon 694 Processor
  - Hexagon Scalar Accelerator
  - Hexagon Vector eXtensions (HVX)
  - Hexagon Tensor Accelerator
- Qualcomm Sensing Hub
  - Ultra low power hub for audio, voice and sensors
  - Supports AI algorithms at low power
  - Support for fusing contextual data streams including sensors, audio and voice
  - Supports multiple voice assistants
  - Multi-mic far-field detection and echo cancellation

### 5G Modem-RF System

- Snapdragon X52 5G Modem-RF System: Modem to antenna integrated system for 5G multimode
- 5G mmWave and sub-6 GHz, standalone (SA) and non-standalone (NSA) modes, FDD, TDD
- Dynamic Spectrum Sharing
- mmWave: 400 MHz bandwidth, 2x2 MIMO
- Sub-6 GHz: 100 MHz bandwidth, 4x4 MIMO
- Qualcomm<sup>®</sup> 5G PowerSave
- Qualcomm<sup>®</sup> Smart Transmit<sup>™</sup> technology
- Qualcomm<sup>®</sup> Wideband Envelope Tracking
- Qualcomm<sup>®</sup> Signal Boost adaptive antenna tuning
- Global 5G multi-SIM
- Downlink: Up to 3.7 Gbps (5G), 1.2 Gbps (LTE)
- Uplink: Up to 1.6 Gbps (5G), 210 Mbps (LTE)
- Multimode support: 5G NR, LTE including CBRS, WCDMA, HSPA, TD-SCDMA, CDMA 1x, EV-DO, GSM/EDGE

### Wi-Fi & Bluetooth

- FastConnect 6200 Subsystem
  - Wi-Fi Standards: Wi-Fi 6-ready (802.11ax-ready), 802.11ac Wave 2, 802.11a/b/g, 802.11n
  - Wi-Fi Spectral Bands: 2.4 GHz, 5 GHz
  - Channel Utilization: 20/40/80 MHz
  - MIMO Configuration: 2x2 (2-stream) with MU-MIMO

- 8-stream sounding (for 8x8 MU-MIMO)
- Wi-Fi Security: WPA3-Enterprise, WPA3-Enhanced Open, WPA3 Easy Connect, WPA3-Personal
- Target Wake Time (TWT)
- Integrated Bluetooth
  - Bluetooth version: 5.1
  - Bluetooth audio: Qualcomm TrueWireless<sup>™</sup> Technology, Qualcomm<sup>®</sup> aptX<sup>™</sup> Adaptive Audio

### Camera

- Qualcomm Spectra<sup>™</sup> 355L Image Signal Processor
- Dual 14-bit ISPs
- Up to 192 MP snapshot capture (up to 48 MP snapshot capture with MFNR)
- Up to 32+16 MP dual camera @ 30 FPS with Zero Shutter Lag
- Rec. 2020 color gamut/10-bits per color video capture
- Slow-mo video capture at 720p @ 240 FPS
- HEIF: HEIC photo capture, HEVC video capture
- Video Capture Formats: HDR10, HLG
- 4K HDR Video Capture with Portrait Mode (Bokeh)
- Multi-frame Noise Reduction (MFNR)

### Audio

- Hexagon Voice Assistant Accelerator for hardware accelerated voice signal processing
- Qualcomm Aqstic<sup>™</sup> audio codec (up to WCD9385)
  - Total Harmonic Distortion + Noise (THD+N), Playback: -108dB
  - Native DSD support, PCM up to 384 kHz/32-bit
  - Customizable "Golden Ears" filter
- Qualcomm Aqstic<sup>™</sup> smart speaker amplifier (up to WSA8815)

### Display

- Maximum On-Device Display Support:
  - FHD+ @ 120 Hz
- Maximum External Display Support:
  - QHD @ 60 Hz
- 10-bit color depth, Rec. 2020 color gamut
- HDR10+

### CPU

- Kryo 570, Octa-core CPU
  - Up to 2.2 GHz
  - 64-bit Architecture

### Visual Subsystem

- Adreno 619 GPU
- Vulkan<sup>®</sup> 1.1 API support
- 4K HDR10 PQ and HLG Video Playback (10 bit color depth, Rec. 2020 color gamut)
- H.264 (AVC), H.265 (HEVC) VP8 and VP9 playback
- Physically Based Rendering
- API Support: OpenGL<sup>®</sup> ES 3.2, OpenCL<sup>™</sup> 2.0 FP, Vulkan 1.1, DirectX 12

### Security

- Biometric Authentication: Fingerprint, Iris, Voice, Face
- On-Device: Qualcomm<sup>®</sup> Mobile Security, Key Provisioning Security, Qualcomm<sup>®</sup> Processor Security, Qualcomm<sup>®</sup> Content Protection, Qualcomm<sup>®</sup> Trusted Execution Environment, Camera Security Secure Camera, Crypto Engine, Malware Protection, Secure Boot, Secure Token

### Charging

- Quick Charge 4+ technology

### Location

- GPS, Glonass, BeiDou, Galileo, QZSS, NavIC, and SBAS
- Dual Frequency Support
- Low Power Geofencing and Tracking, Sensor-assisted Navigation
- Near Field Communications (NFC): Supported

### General Specifications

- Memory Speed: up to 2133 MHz, 12 GB RAM
- Memory Type: 2 x 16-bit, LPDDR4x
- Near Field Communications (NFC) support
- DisplayPort over USB Type-C support
- 8 nm Process Technology
- Part Number: SM7225

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

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