



730G

Qualcomm® Snapdragon™ 730G Mobile Platform brings select Snapdragon Elite Gaming features to your mobile device for a powerful gaming experience. It also offers AI for more intuitive image capture, plus an optimized performance that exceeds 7-series expectations.



Exceptional gaming features

Mobile gaming is on the rise and Qualcomm comes prepared. The Snapdragon 730G gives you the tools to conquer your foes with select Snapdragon Elite Gaming features. Enhancements such as Wi-Fi Latency Manager and Jank Reducer empower you to perform at your peak, while the overclocked Qualcomm® Adreno™ 618 GPU delivers up to 25% faster graphics rendering. Experience mobile gaming in True HDR, providing extreme realism with rich graphics and cinema-quality processing, plus an improved display so you can immerse yourself in 1 billion shades of winning!

- True HDR mobile gaming with 10-bit color depth, Rec. 2020 color gamut, and over 1 billion shades of color
- Vulkan 1.1 graphics driver uses 20% less power than Open GL ES for more vivid visuals and longer battery
- Enhanced QHD+ display



Awe-inspiring camera capabilities

The Qualcomm Spectra™ 350 features the industry's only Computer Vision ISP (CV-ISP) to bring brilliant, brand-new camera capabilities to the 7-series. The CV-ISP delivers up to 4x power savings and adds features including 4K HDR video capture with Portrait Mode, Cinemagraph Video and Object Segmentation. It also captures HD slo-mo video at 960fps, and saves your photos and videos in HEIF format so you can document life from multiple angles and store it all at half the size.

- CV-ISP provides depth sensing at 60 fps and up to 4x power savings
- 4K HDR capture with Portrait Mode, Cinemagraph Video, Object Segmentation and HD slo-mo video at 960fps
- HEIF saves photos, videos, and computer vision data at half the size of traditional file storage formats



Smart, sophisticated AI experiences

Packing twice the power of its predecessor, our 4th generation multi-core Qualcomm® AI engine fuels intuitive on-device features for camera, gaming, voice and security. Elevate your mobile experiences with the speed, power and quality of Qualcomm innovation.

- Newly designed Qualcomm® Hexagon™ Tensor Accelerator (HTA)
- Support for industry leading frameworks and software developers



Game for hours, with battery to spare

The Snapdragon 730G serves up the best of both worlds—powerful performance and impressive battery life. Fueled by an 8nm processor, it's built to handle demanding game play, delivering extreme power efficiency in a smaller size. Plus, the Qualcomm® Kryo™ 470 is engineered with new architectures, enabling you to play for longer and outlast your enemies.

- Kryo 470 CPU is built on the latest Arm® Cortex™ Technology, providing a 35% performance uplift
- Balances workload across 8 cores: 2 performance and 6 efficiency



Connections that count

Connect quickly and seamlessly, whether in crowded arenas, remote locations, or at home. The Snapdragon X15 LTE Modem offers remarkable LTE download and upload speeds in addition to breakthrough Wi-Fi performance. In fact, the Snapdragon 730G is one of our first platforms that comes Wi-Fi 6-ready.

- Snapdragon X15 LTE Modem offers download speeds up to 800 Mbps
- Wi-Fi 6-ready features support fast, secure and robust connected experiences at increased range

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

All comparisons made are in reference to previous generation, Snapdragon 710 mobile platform. Results will vary depending on OEM implementation and other factors.

Qualcomm Snapdragon, Qualcomm Kryo, Qualcomm Hexagon, Qualcomm Adreno,

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SPECIFICATIONS & FEATURES

Qualcomm® Artificial Intelligence Engine

- Adreno 618 GPU
- Kryo 470 CPU
- Qualcomm® Hexagon™ 688 Processor
- Qualcomm® Hexagon™ Vector eXtensions
- Hexagon Tensor Accelerator
- Qualcomm® Hexagon™ Voice Assistant Accelerator
- Qualcomm® All-Ways Aware™ Hub
- Qualcomm Neural Processing SDK

Modem

- Snapdragon X15 LTE modem
- Support for 800 Mbps LTE
- Downlink: LTE Cat 15 up to 800 Mbps, 3 x 20 MHz carrier aggregation, up to 256-QAM, up to 4 x 4 MIMO on two aggregated carriers
- Uplink: LTE Cat 13 up to 150 Mbps, Snapdragon Upload+ (2 x 20 MHz carrier aggregation, up to 64-QAM)
- Dual SIM Dual VoLTE (DSDV)
- Qualcomm® All Mode with support for all major cellular modes plus LAA. 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

Wi-Fi

- Qualcomm® Wi-Fi 6-ready mobile platform
 - Wi-Fi Standards: 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
 - Dual-band simultaneous (DBS)
- Key Features: 8x8 sounding (up to 2x improvement over 4x4 sounding devices), Target Wakeup Time for up to 67% better power efficiency, latest security with WPA3, integrated Bluetooth 5 with Qualcomm TrueWireless™ advanced audio

Camera

- Qualcomm® Spectra™ 350 Image Signal Processor
- Hardware accelerator for computer vision (CV-ISP)
- HEIF photo capture

- Dual 14-bit ISPs
- Dual camera: up to 22 MP, MFNR, ZSL, 30 fps
- Single camera: up to 36 MP, MFNR, ZSL, 30 fps
- Single camera: up to 48 MP, MFNR
- Single camera: up to 192 MP
- Video capture:
 - Standard: up to 4K HDR at 30 fps, 10-bit Rec. 2020 color gamut for HDR10 video
 - Slow motion: up to 1080p at 120 fps or 720p at 240 fps
 - Super slow motion with frame rate conversion: up to 720p at 960 fps
- Rec. 2020 color gamut video capture
- Up to 10-bit color depth video capture
- Multi-Frame Noise Reduction (MFNR)
- Video Capture Formats: HDR10, HLG
- 4K HDR Video Capture with Portrait Mode (Bokeh, 4K at 30 fps)
- Hybrid Autofocus with support for dual phase detection (2PD) sensors
- Real-time object classification, segmentation and replacement

Audio

- Low-power audio subsystem with AI
- Hexagon Voice Assistant Accelerator for advanced voice use cases
 - Always-on echo cancellation and noise suppression
- Qualcomm Aqstic™ audio codec (up to WCD9341) and speaker amplifier (up to WSA8815)
 - Native DSD support, PCM up to 384 kHz/32-bit
 - Supports two wake words simultaneously
- Qualcomm® aptX™ Adaptive audio technology
- Qualcomm TrueWireless™ Stereo Plus technology

Display

- Maximum On-Device Display Support: QHD+ (3360 x 1440)
- Maximum External Display Support: UHD (3840 x 2160)
- Support for HDR displays
- Qualcomm® EcoPix™
- Qualcomm® TruPalette™

CPU

- Kryo 470, Octa-core CPU
- Up to 2.2 GHz
- 64-bit Architecture
- 8nm Process Technology

Visual Subsystem

- Adreno 618 GPU
- Support for true HDR10 gaming
- Vulkan® 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® ES 3.2, OpenCL™ 2.0 FP, Vulkan 1.1, DirectX 12

RF Front-End

- Qualcomm Adaptive Antenna Tuning
- Qualcomm Envelope Tracking
- Qualcomm® Signal Boost™ adaptive antenna tuning
- High-power transmit (HPUE)

Security

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

General Specifications

- Select Snapdragon Elite Gaming features
- Memory Speed: up to 1866 MHz, 8 GB RAM
- Memory Type: 2 x 16-bit, LPDDR4
- Bluetooth Version: 5.0
- Bluetooth Speed: 2 Mbps
- GPS, Glonass, BeiDou, Galileo, QZSS, and SBAS
- Low Power Geofencing and Tracking, Sensor-assisted Navigation
- Near Field Communications (NFC) support
- DisplayPort over USB Type-C support
- Qualcomm® Quick Charge™ 4+ technology
- Part number: SM7150-AB