730

Qualcomm
snapdragon
730 mobile platform

Qualcomm® Snapdragon™ 730 Mobile Platform powers intelligent on-device experiences for camera, gaming and performance—fueled by our cutting-edge 4th generation Qualcomm® AI Engine.

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 our innovation.

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

Awe-inspiring camera capabilities

The Qualcomm Spectra™ 350 features the industry's first announced Computer Vision (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. It also captures photos and videos in HEIF format so you can document life from multiple angles and store it all at half the size of traditional file storage formats.

- CV-ISP is engineered to provide depth sensing at 60 fps and up to 4x power savings
- 4K HDR capture with Portrait Mode

Enhanced gaming performance

Victory is more satisfying when you're gaming with the Snapdragon 730. Dive into a world of extreme realism with rich graphics, cinema-quality processing, and true HDR gaming in over 1 billion shades of color. A world where sound effects will astonish and immerse you in every scene. Mobile gaming is on the rise—now is your time to level up.

- True HDR mobile gaming with 10-bit color depth, Rec. 2020 color gamut
- Vulkan 1.1 graphics driver uses 20% less power than Open GL ES for more vivid visuals and longer battery

Connections that count

Connect quickly and effortlessly, 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 730 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

Striking a power balance

The Snapdragon 730 serves up the best of both worlds—powerful performance and impressive battery life. It's built to handle the most sophisticated on-device interactions, fueled by an 8nm process for extreme power efficiency in a small size. Plus, the Qualcomm® Kryo™ 470 CPU is engineered with new architectures, enabling you to capture memories, stream video and multitask longer.

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

To learn more visit
snapdragon.com

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SPECIFICATIONS & FEATURES

Qualcomm AI Engine

- Qualcomm® Adreno™ 618 GPU
- Kryo 470 CPU
- Hexagon 688 Processor
- Hexagon Vector eXtensions
- Hexagon Tensor Accelerator
- 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, Qualcomm® 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 & 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)
  - Dual-band simultaneous (DBS)
  - 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: QualcommTrueWireless™ Technology, Qualcomm® aptX™ Adaptive 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
- 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: FHD+ (2520 x 1080)
- Maximum External Display Support: UHD (3840 x 2160)

- Support for HDR displays
- Qualcomm® Low Power Picture Enhancement
- Qualcomm® TruPalette™ Display Feature

CPU

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

Visual Subsystem

- Adreno 618 GPU
- 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

- Memory Speed: up to 1866 MHz, 8 GB RAM
- Memory type: 2 x 16-bit LPDDR4/4x
- 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-AA