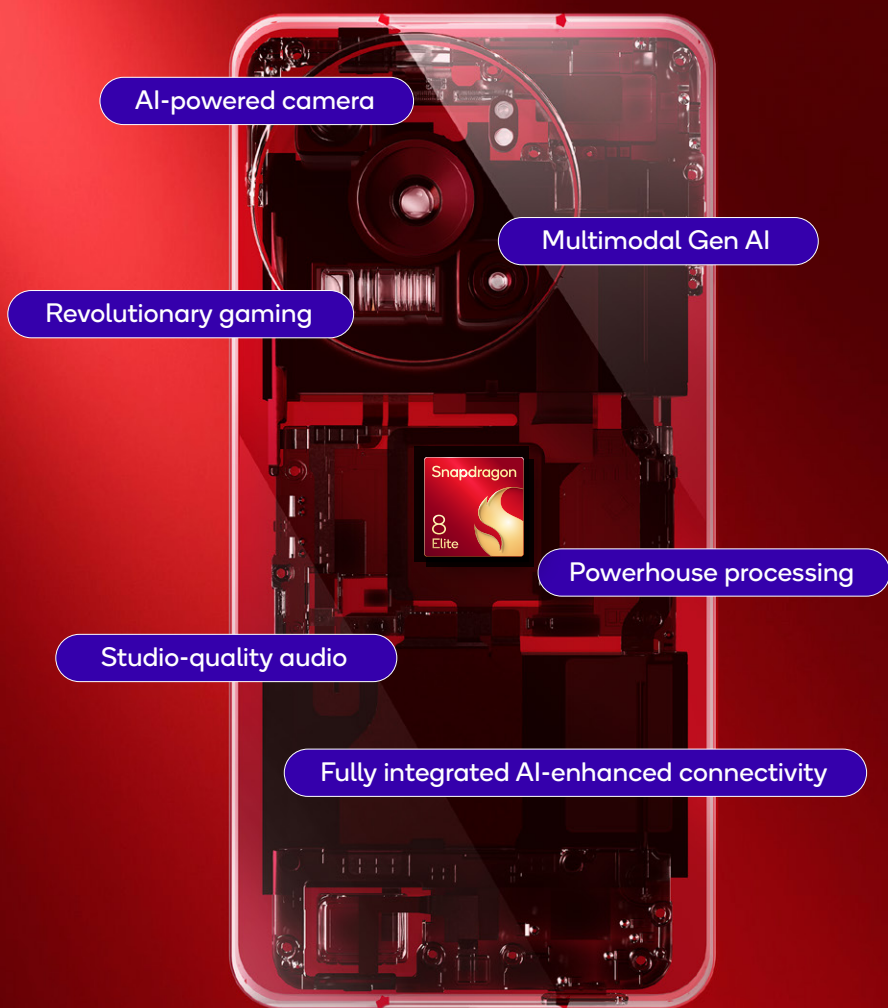


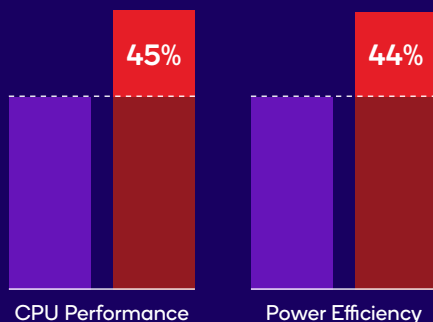
PERFORMANCE, TRANSFORMED



The Snapdragon® 8 Elite Mobile Platform is the pinnacle of Snapdragon innovation, delivering revolutionary power, speed, efficiency, and support for multimodal generative AI.

Industry-leading 2nd generation Qualcomm Oryon™ CPU

Multitask to the max with the fastest mobile CPU in the world, reaching up to 4.32 GHz peak speeds—a 45% boost in CPU performance at 44% improved power efficiency.



All comparisons made are in reference to previous generation, Snapdragon 8 Gen 3 Mobile Platform. Results will vary, depending on OEM implementation and other factors.

Our 45% faster Qualcomm® Hexagon™ NPU pushes AI performance to new heights.

On top of voice, image, and text, your AI assistant can now see the world through your camera to help with tasks, ranging from everyday queries and summarization to advanced content creation.

The Qualcomm® Sensing Hub understands personal context that allows your multimodal generative AI assistant to make suggestions and decisions that suit you best.

Thanks to longer token support, you can provide your AI assistant entire book chapters or lengthy technical documents to make it an expert on any subject—instantly.



First-ever sliced Qualcomm® Adreno™ GPU architecture, a full suite of Snapdragon Elite Gaming™ features, and support for Unreal Engine's Nanite bring about picture-perfect AAA gaming.



- Stunning, film-quality 3D landscapes.
- Faster, smoother gameplay at 40% greater power efficiency.
- Unbelievably realistic destructible environments and car chases.

Our AI ISP enhances everything from selfies to crystal-clear video chats, thanks to an overhauled Hexagon Direct Link and Limitless Segmentation able to optimize over 250 layers in an image.



- Perfect AI-Based Pet Capture—no matter how fast the zoomies.
- Authenticate your photos as real and not AI-generated via Truepic with C2PA seals.
- Video Object Eraser removes unwanted elements.
- Capture vivid videos at 4K60 FPS, even in near darkness.

Snapdragon Sound™ Technology Suite lets you hear lossless music at a far greater range than Bluetooth® wireless technology, thanks to Qualcomm® Expanded Personal Area Network (XPAN) technology offering whole home and building coverage.



- Crystal-clear audio Qualcomm® aptX™ Lossless Technology.
- Stay connected, even when your smartphone is in another room or on another floor.
- Lag-free, ultra-low latency spatial audio elevates your mobile gaming worlds.

The Snapdragon X80 5G Modem-RF System unites with Qualcomm® 5G AI Suite Gen 3 for the fastest global connectivity. Plus, keep tabs on your belongings with hyper-accurate proximity capabilities thanks to first-ever Wi-Fi, Bluetooth, and UWB integration.



- AI-optimized 5G at multi-gigabit shattering speeds.
- First 4x6 MIMO solution.
- First DSDA with global coverage.
- Qualcomm® FastConnect™ 7900 Mobile Connectivity System delivers the world's most capable Wi-Fi 7 solution with HBS Multi-Link.

AI-enhanced connectivity

Security

IP protection for AI models

Sound

Gen AI powerhouse

70+ tokens/sec
4K context window

10.7 Gbps

6-core vector
8-core scalar

5.3 GHz
LPDDR5x memory bandwidth

Snapdragon
8
Elite

Gaming

40% Performance improvement¹

35% Ray Tracing performance improvement²

Camera

4.3 GP/s
33%
improvement^a

Qualcomm Oryon CPU

45%
Single-core
improvement

4.32GHz
CPU max frequency

45%
Multi-core
improvement⁵

24MB
Largest total

62%
Web browsing
improvement¹

MB
total CPU cache?

Power savings

44% CPU³

40% GPU³

45% AI perf/watt⁴

27% Overall SoC³

3nm
Process node

All compared to commercial devices with Snapdragon 8 Gen 2 processors. 1. Based on AnTuTu; 2. Based on 3Dmark Solar Bay; 3. Based on internal testing; 4. Based on MUEP-RON model with internal power measurement; 5. Based on Geobench v6.2 ST and MT; 6. Based on Speedometer; 7. Largest total CPU cache in mobile industry; 8. 3.24G/s baseline compared to 4.3G/s. Performance and Outcomes based on real-world use and results of Qualcomm Technologies, Inc. and its subsidiaries.



Artificial Intelligence

- Qualcomm® AI Engine
- Qualcomm® Adreno™ GPU
 - Qualcomm Oryon™ CPU
 - Qualcomm® Hexagon™ NPU
 - Fused AI accelerator architecture
 - Hexagon scalar, vector, and tensor accelerators
 - Hexagon Direct Link
 - Micro Tile Inferencing
 - Large shared memory concurrency support
 - Upgraded power delivery system
 - Support for mix precision (INT8+INT16)
 - Support for all precisions (INT4, INT8, INT16, FP16)

- Qualcomm® Sensing Hub
- Dual Micro NPUs for audio and sensors
 - Dual Always-Sensing ISPs to support two concurrent Always-Sensing Cameras
 - Support for INT4 precision

5G Modem-RF System

- Snapdragon® X80 5G Modem-RF System
- 5G Advanced-ready, 5G mmWave and sub-6 GHz, 5G standalone (SA) and non-standalone (NSA) modes, standalone mmWave and mmWave-sub-6 dual connectivity, FDD, TDD
- Downlink: Up to 10 Gbps
- Uplink: Up to 3.5 Gbps
- mmWave: 8 carriers, 2x2 MIMO
- Sub-6 GHz: 4x6 MIMO
 - Converged mmWave-sub-6 transceiver
 - Qualcomm® 5G AI Suite Gen 3 includes:
 - AI-enhanced performance improvements in power handling, coverage, latency, & QoS
 - AI-assisted mmWave beam management–mmWave (SA) range extension for CPE
 - AI-based GNSS Location Gen 3
 - Qualcomm® 5G AI Processor Gen 2 with dedicated tensor hardware accelerator
 - Qualcomm® 5G PowerSave Gen 5
 - Fully integrated NB-NTN support
 - Qualcomm® Smart Transmit™ Gen 5 technology with Snapdragon® Satellite support
 - Qualcomm® Wideband Envelope Tracking
 - 5G New Calling support
 - Qualcomm® Power RF Efficiency Suite
 - Qualcomm® 5G Ultra-Low Latency Suite
 - Qualcomm® RF Uplink Optimization
 - Global 5G multi-SIM, including Qualcomm DSDA Gen 2
- 3GPP Release 17 and Release 18 support
- 6xCA Downlink
- 6-antenna support (6 Rx for 4x6 MIMO)
- Multimode support: 5G NR, NR-DC, EN-DC, LTE, CBRS, WCDMA, LAA, GSM/EDGE, Dynamic Spectrum Sharing (DSS)

Wi-Fi, Bluetooth®, & UWB

- Qualcomm® FastConnect™ 7900 Mobile Connectivity System
- Wi-Fi Generation: Wi-Fi 7
 - Peak Speed: 5.8 Gbps
 - 802.11be, 802.11ax, 802.11ac, 802.11a/b/g/n
 - Wi-Fi Spectral Bands: 6 GHz, 5 GHz, 2.4 GHz
 - Channel Bandwidth: 320/240/160/80/40/20 MHz
 - 4K QAM
 - High Band Simultaneous (HBS) Multi-Link
 - Wi-Fi Security: WPA3-Enterprise, WPA3-Enhanced Open, WPA3 Easy Connect, WPA3-Personal
- Integrated Bluetooth
- Bluetooth Features: Bluetooth 6.0, LE Audio, dual Bluetooth antennas
- Integrated Ultra Wideband (UWB)
- IEEE 802.15.4z, FiRa, CCC

Audio

- Snapdragon Sound™ Technology Suite:
- Qualcomm® aptX™ Adaptive and aptX Lossless audio
 - Qualcomm® Expanded Personal Area Network (XPAN) technology
 - Qualcomm Aqstic™ audio codec
 - Qualcomm Aqstic smart speaker amplifier: Total Harmonic Distortion + Noise (THD+N) Playback: -108 dB
 - Qualcomm Aqstic Speaker Max
 - Qualcomm® Audio and Voice Communication Suite
 - Spatial audio with head-tracking

Display

- On-Device Display Support:
- 4K @ 60 Hz
 - QHD+ @ 240 Hz
- Maximum External Display Support:
- Up to 8K @ 30 Hz
 - Up to 1080 @ 240 Hz
- Variable Refresh Rate support for 240 Hz to 1 Hz
- 10-bit color depth, Rec. 2020 color gamut
 - HDR10, HDR10+, HDR vivid, and Dolby Vision

CPU

- Qualcomm Oryon™ CPU
- 64-bit Architecture
 - 2 Prime core, up to 4.32 GHz
 - 5 Performance cores, up to 3.53 GHz

Camera

- Qualcomm Spectra™ Image Signal Processor
- AI-ISP, Triple 18-bit ISPs
- Limitless real-time Semantic Segmentation photo and video processing
- Engine for Visual Analytics 4.0, including hardware acceleration for iToF depth sensors up to 4K 60 FPS
- Support for the latest HDR, DCG+VS, DCG, Staggered, QDOL, Less Blanking, and Multiframe HDR image sensors
- Support for triple video capture from HDR image sensors, with seamless switching between any HDR mode
- Up to 48 MP triple camera @ 30 FPS with Zero Shutter Lag
 - Up to 108 MP single camera @ 30 FPS with Zero Shutter Lag
 - Up to 320-megapixel photo capture
- AI-based face detection, AI for 3A (auto-focus, autoexposure, and auto-white balance)
- Rec. 2020 color gamut photo and video capture
- Up to 10-bit color depth photo and video capture
- 10-bit HEIF: HEIC photo capture, HEVC video capture
- Google Ultra HDR photo capture
- Video capture HDR formats: HDR10+, HDR10, HLG, Dolby Vision
- 8K HDR video playback @ 60 FPS
- 4K video capture @ 120 FPS
- Slow-mo video capture at 1080p @ 480 FPS
- Hardware Bokeh Engine 2 for video capture
- Pro Sight video capture
- Ultra-low light video capture with AI Noise Reduction in 4K60 FPS
- Computational HDR video capture: Up to 4 exposures (with QDOL image sensors)
- Video super resolution
- Massive Multi-Frame Noise Reduction with AI
- Locally Motion Compensated Temporal Filtering
- Enhanced AI video segmentation @ 4K60 FPS
 - Realtime AI skin and sky tone adjustments in 4K60 FPS
- Truepic photo capture with C2PA-compliant certificate authority

Visual Subsystem

- Adreno GPU
- Real-time Hardware-Accelerated Ray Tracing with Global Illumination
 - Support for Unreal Engine 5.3 running Nanite on smartphones
 - Support for Unreal Engine Chaos Physics Engine
 - Snapdragon Adaptive Game Configuration
 - Snapdragon Game Super Resolution
 - Adreno Frame Motion Engine 2.1
 - Snapdragon Game Post Processing Accelerator
 - HDR gaming (10-bit color depth, Rec. 2020 color gamut)
 - Snapdragon Shadow Denoiser
 - API support: OpenGL® ES 3.2, OpenCL™ 3.0 FP, Vulkan® 1.3
 - Hardware-accelerated H.265, VP9, AV1 decoder
 - HDR Playback Codec support for HDR10+, HDR10, HLG, and Dolby Vision

Security

- Trust Management Engine (Root of Trust), along with platform-level security foundations
- Support for Android’s DICE-based remote key provisioning
- Qualcomm® Trusted Execution Environment & Services (TEE) for use cases requiring higher processing assurance
- Qualcomm® Type-1 Hypervisor for isolation from the high-level OS
- Secure Processing Unit (SPU) with support for the Android latest Strongbox SW components
- Qualcomm® wireless edge services (WES) for secure attestation and provisioning
- Qualcomm® 3D Sonic Sensor and Qualcomm 3D Sonic Max (fingerprint sensor)

Location

- Concurrent GPS, Glonass, BeiDou, Galileo, QZSS, NavIC
- Triple frequency GNSS (L1/L2C/L5)
- AI-based GNSS Location Gen 3
- Sensor-Assisted Positioning 6.0
- Urban pedestrian navigation with sidewalk accuracy
- Global freeway lane-level vehicle navigation

Charging

- Qualcomm® Quick Charge™ 5 Technology

Memory

- Support for LP-DDR5x memory, up to 5300 MHz
- Memory Density: Up to 24 GB

General Specifications

- Full suite of Snapdragon Elite Gaming™ features
- 3nm Process Technology
- USB Version 3.1 Gen 2; USB Type-C Support
- Storage: UFS 4.0
- Part Number: SM8750-3-AB