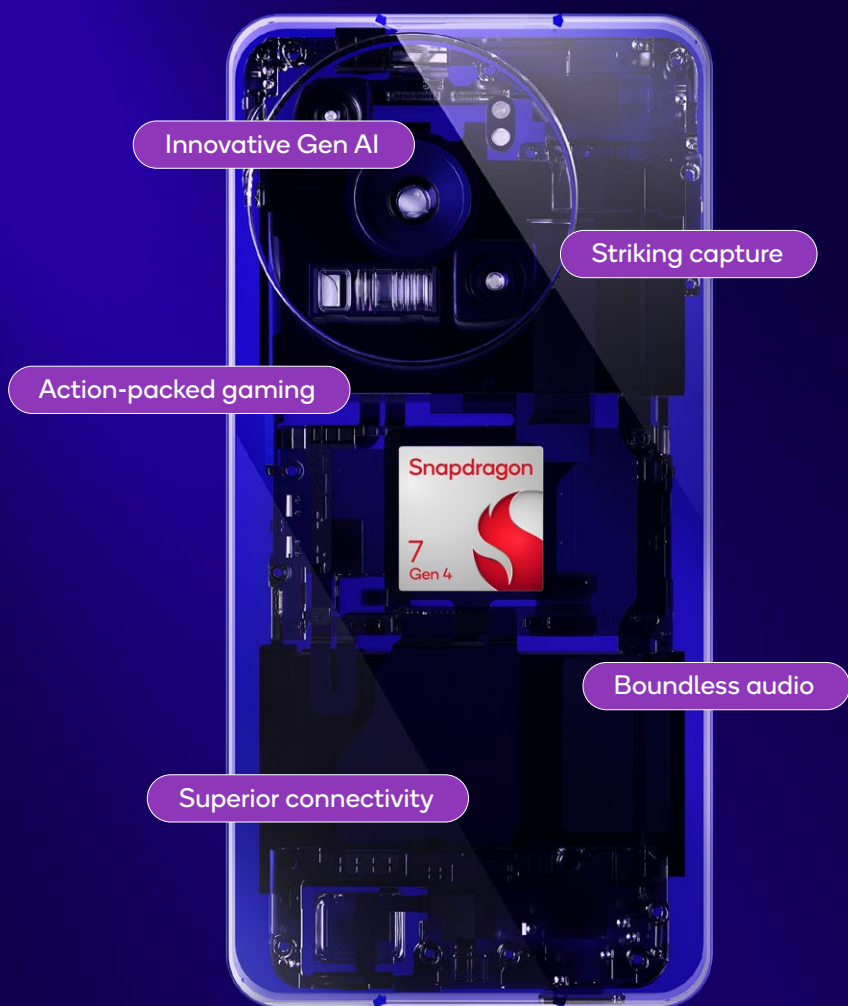


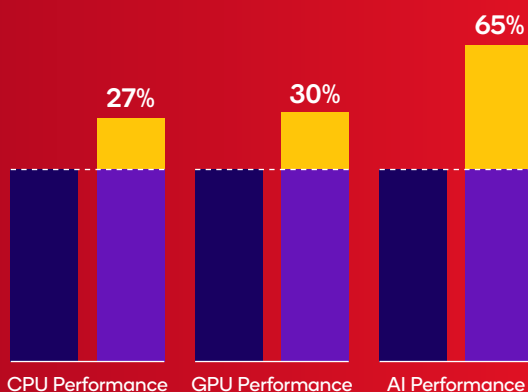
MULTIMEDIA POWERHOUSE



Snapdragon® 7 Gen 4 Mobile Platform—this multimedia powerhouse fuels your favorite cutting-edge experiences. Robust performance across the board powers new passions with innovative Gen AI support, plus striking photography with video super resolution. With action-packed gaming backed by boundless audio and superior 5G and Wi-Fi 7 connectivity, this platform is designed to future-ready your mobile experience.

Robust performance

Blaze through tasks and fuel your passions with supercharged CPU, GPU, and AI performance—optimized for all-day efficiency.



Innovative Gen AI



Get support for unrivaled Gen AI features powered by the Qualcomm® AI Engine, delivering cutting-edge, on-device capabilities like lightning-fast image generation with Stable Diffusion 1.5—brand new to the Snapdragon 7 series.

- Support for popular LLMs offers smarter voice assistants, real-time translation, seamless content creation, and more.
- On-device Gen AI assistants provide secure, virtually instant support without relying on the cloud.
- Qualcomm® Sensing Hub is always-on and provides accessibility features, like a motion sickness relief display.

Striking capture



Redefine your shots with a Triple ISP offering all-new, AI-enhanced features built directly into the hardware for the first time in the Snapdragon 7 series.

- Real-time Video Super Resolution yields sharp, clear footage—even when zoomed in.
- New-in-series AI-powered auto focus, auto white balance, and auto exposure offer a richer user experience for photos and videos, with vivid colors, fast focus, and higher dynamic range.
- Series-first hardware electronic image stabilization allows for all videos to be tripod-smooth—no extra gear required.

Action-packed gaming



Stay fully immersed with select Snapdragon Elite Gaming™ features, while support for the latest 5G and Wi-Fi 7 connectivity keeps your multiplayer and online adventures at an all-time high.

- First-in-series Qualcomm® Adaptive Performance Engine 4.0 intelligently schedules resources for high-intensity scenes, keeping gameplay seamless and immersive.
- Snapdragon Adaptive Game Configuration fine-tunes CPU and GPU performance in real time for smooth play with reduced stutter—all without draining battery power.
- Snapdragon Game Super Resolution provides vibrant visuals while Qualcomm® Game Quick Touch offers responsiveness to the millisecond.

Boundless audio



Tune into a world of rich, lossless audio—just as the artist intended—across music, gaming, and streaming experiences thanks to the Snapdragon Sound™ Technology Suite.

- First-in-series Qualcomm® Expanded Personal Area Network (XPAN) technology provides whole-building, seamless coverage from device to earbud, even when away from your phone or on another floor.
- Snapdragon Sound supports lossless music streaming so you can hear every detail of your music.
- Qualcomm Aqstic™ Hi-Fi DAC produces authentic mobile sound with no distortion.

Superior connectivity



Stay connected from virtually anywhere with support for the latest 5G and Wi-Fi 7, while first-in-series Bluetooth® Channel Sounding locates lost items like earbuds, speakers, and more.

- The Snapdragon 5G Modem-RF System ushers in 3GPP Release 17 5G for download speeds up to 4.2 Gbps, plus support for more networks compared to its predecessor.
- Travel confidently with Dual-SIM Dual Active 5G+5G/4G automatically connecting to the fastest, strongest network.
- The Qualcomm® FastConnect™ Mobile Connectivity System offers lightning-fast, responsive Wi-Fi 7, plus support for the latest Bluetooth® 6.0 technology.

Camera

Video Super Resolution

Massive MFNR

Hardware Electronic Image Stabilization

AI

2x larger shared memory

Gen AI

Stable Diffusion 1.5

Performance

27% improved CPU

30% improved GPU

65% improved NPU

Snapdragon

7 Gen 4

Gaming

Qualcomm Adaptive Performance Engine 4.0

Snapdragon Adaptive Game Configuration

Audio

Qualcomm® Expanded Personal Area Network (XPAN) technology

Aqstic Hi-Fi DAC

Connectivity

Release 17 5G

Wi-Fi 7

Bluetooth® 6.0 technology

SPECS & FEATURES

Artificial Intelligence

Qualcomm® Adreno™ GPU

Qualcomm® Kryo™ CPU

Qualcomm® Hexagon™ NPU

- Fused AI Accelerator Architecture
- Hexagon Tensor Accelerator
- Hexagon Vector eXTensions
- Hexagon Scalar Accelerator
- Support for precisions INT4, INT8, and INT16
- Qualcomm® Sensing Hub
- Dedicated NPUs for audio and sensors

5G Modem-RF System

Snapdragon® 5G Modem-RF System

- 5G sub-6 GHz, standalone (SA) and non-standalone (NSA) modes, FDD, TDD, 3GPP Rel 17
- Dynamic Spectrum Sharing
- Sub-6 GHz: 4x4 MIMO
- Qualcomm® 5G PowerSave 2.0
- Qualcomm® Smart Transmit™ 2.0 technology
- Qualcomm® Wideband Envelope Tracking
- Qualcomm® AI-Enhanced Signal Boost
- Global 5G multi-SIM, including 5G/4G DSDA
- Integrated NB-NTN

Downlink: Up to 4.2 Gbps

Multimode support: 5G NR, LTE including CBRS, WCDMA, HSPA, CDMA 1x, EV-DO, GSM/EDGE

Wi-Fi & Bluetooth®

Qualcomm® FastConnect™ Mobile Connectivity System

- Wi-Fi Generation: Wi-Fi 7, Wi-Fi 6, Wi-Fi 5
- 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: 160/80/40/20 MHz
- MIMO Configuration: 8x8 Sounding
- MU-MIMO (Uplink & Downlink)
- 4K QAM
- OFDMA (Uplink & Downlink)
- Wi-Fi Security: WPA3-Enterprise, WPA3-Enhanced Open, WPA3 Easy Connect, WPA3 Personal, FIPS 140-2- support, 256-bit encryption

Integrated Bluetooth

Bluetooth features: Bluetooth® 6.0 technology, LE Audio, Bluetooth Channel Sounding Snapdragon Sound™ Technology Suite, with support for Qualcomm® aptX™ Voice, aptX Lossless, and aptX Adaptive

Camera

Qualcomm Spectra™ Image Signal Processor

- Triple 12-bit ISPs
- Up to 21 MP triple camera @ 30 FPS with Zero Shutter Lag
- Up to 32+21 MP dual camera @ 30 FPS with Zero Shutter Lag
- Up to 64 MP single camera @ 30 FPS with Zero Shutter Lag
- Up to 200 megapixel photo capture

Auto-focus, auto-exposure, and auto white balance

Hardware Electronic Image Stabilization

Massive Multi-Frame Noise Reduction

Rec. 2020 color gamut photo and video capture

Up to 10-bit color depth photo and video capture

4K @ 60 FPS HDR video capture + 64 MP photo capture

10-bit HEIF: HEIC photo capture, HEVC video capture

Video capture HDR formats: HDR10, HLG

Slow-mo video capture at 1080p @ 120 FPS

Support for 4K staggered HDR, multi-frame HDR, and limited-blanking multi-frame HDR image sensors

Motion Compensated Temporal Filtering

Audio

Qualcomm Aqstic™ audio codec

Qualcomm Aqstic smart speaker amplifier

Total Harmonic Distortion + Noise (THD+N),

Playback: -108 dB

Qualcomm® Audio and Voice Communication Suite

Display

On-Device Display Support:

- WQHD+ @ 144 Hz

Maximum External Display Support:

- Up to 4K @ 60 Hz
- 10-bit color depth
- HDR10 and HDR10+

CPU

Kryo CPU

64-bit Architecture

- 1 Prime core, up to 2.8 GHz
- 4 Performance cores, up to 2.4 GHz
- 3 Efficiency cores, up to 1.8 GHz

Visual Subsystem

Adreno GPU

- HDR gaming (10-bit color depth)
- API Support: OpenGL™ ES 3.2, OpenCL™ 2.0 FP, Vulkan® 1.3
- Hardware-accelerated H.265 and VP9 decoder
- HDR Playback Codec support for HLG, HDR10+, HDR10, and HDR vivid

Security

Platform Security Foundations

Qualcomm® Trusted Execution Environment & Services (TEE)

Trust Management Engine

Qualcomm® wireless edge services (WES) and premium security features

Qualcomm® Type-1 Hypervisor

Location

Concurrent GPS, Glonass, BeiDou, Galileo, QZSS, NavIC

Triple frequency GNSS (L1/L5/L2)

Sensor-Assisted Positioning

- 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 4200 MHz

Support for LP-DDR5 memory, up to 3200 MHz

Support for LP-DDR4 memory, up to 2100 MHz

Memory Density: Up to 16 GB

General Specifications

Select Snapdragon Elite Gaming™ features

4nm Process Technology

USB Version 3.1; USB Type-C Support

Part Number: SM7750-AB

Storage: UFS 4.0. UFS 3.1, UFS 2