



## Snapdragon® 7+ Gen 3 Mobile Platform

With a device powered by the Snapdragon 7+ Gen 3 Mobile Platform in your hand, you are the mastermind of your entertainment. The most powerful Snapdragon 7-series yet wows with unwavering on-device intelligence, including support for generative AI, artistic capture with industry-leading 18-bit cognitive ISP, supercharged mobile gaming, and unrivaled connectivity featuring Wi-Fi 7 for the first time in the Snapdragon 7-series. Intelligence, creativity, brilliance—mastered.

### Unwavering intelligence

Usher in a new age of productivity and creativity with premium AI features in the Snapdragon® 7-series.

- New-in-series support for on-device generative AI helps you crush your to-do list with AI-powered virtual assistants and create never-before-seen content with incredible efficiency.
- Support for a variety of leading large language models (LLMs) and large vision models (LVMs).
- Multi-language translation and transcription makes international entertainment accessible.

### Revved-up performance

Stream, play, listen, and create—better and for longer—with the most powerful Snapdragon 7-series ever.

- Give your entertainment a kick with the 15% improved Qualcomm® Kryo™ CPU and 45% improved Qualcomm® Adreno™ GPU.
- Take command of your day with 5% overall power savings.
- Snapdragon Seamless™ experience ensures all your devices connect to each other effortlessly for nonstop recreation.

### Artistic capture

Make every memory flawless and shoot like a pro with AI-accelerated photo and video capture.

- New-in-series Qualcomm Spectra™ 18-bit Triple Cognitive ISP renders vivid detail in up to 200 MP and packs unparalleled editing features.
- New-in-series Semantic Segmentation optimizes individual layers within the frame for real-time enhancements.
- Video Super Resolution (VSR) lets you capture sharp, clear footage from great distances with smart zoom capabilities.

### Supercharged mobile gaming

Outperform your adversaries with high-resolution gameplay that unfolds smoothly and lasts as long as you do.

- New-in-series Game Post Processing Accelerator delivers mesmerizing visual effects—like bloom, depth, and motion blur.
- New-in-series Adreno Frame Motion Engine 2.0 enhances content at twice the framerate without draining power.

### Immersive listening

Be in sync and find your rhythm with surround-sound enjoyment from anywhere with the Snapdragon Sound™ Technology Suite.

- Spatial Audio with smart head tracking delivers incredibly low motion-to-sound latency.
- Snapdragon Sound and Qualcomm® aptX™ Adaptive Audio keeps your music lossless over Bluetooth® wireless technology—just as the artists intended.

### Unrivaled connectivity

Whether you're leveling up at home or devouring new content on your commute, this is entertainment—on your terms.

- The Qualcomm® FastConnect™ 7800 Mobile Connectivity System introduces Wi-Fi 7 to the Snapdragon 7-series, offering the fastest global speeds up to 5.8 Gbps.
- Achieve consistent, strong Wi-Fi connections via High Band Simultaneous Multi-Link.
- The Snapdragon X63 5G Modem-RF System introduces the power efficiency, broad coverage, and location accuracy of 3GPP Release 17 5G to this tier, with ultra-swift download speeds.

All comparisons to previous generation.

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## Artificial Intelligence

Qualcomm® AI Engine

- Qualcomm® Adreno™ GPU
- Qualcomm® Kryo™ CPU
- Qualcomm® Hexagon™ NPU
- Fused AI accelerator architecture
- Hexagon scalar, vector, and tensor accelerators
- Hexagon Direct Link
- Support for mix precision (INT8+INT16)
- Support for all precisions (INT4, INT8, INT16, FP16)

Qualcomm® Sensing Hub

- Dual micro NPUs for audio and sensors
- Support for INT4 precision

## 5G Modem-RF System

Snapdragon X63 5G Modem-RF System

- 5G mmWave and sub-6 GHz, standalone (SA) and non-standalone (NSA) modes, FDD, TDD
- Dynamic Spectrum Sharing
- mmWave: 4 carriers, 2x2 MIMO
- 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

Downlink: Up to 5 Gbps

3GPP Release 17 5G

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

## Wi-Fi & Bluetooth®

Qualcomm® FastConnect™ 7800 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
- 8-stream sounding (for 8x8 MU-MIMO)
- MIMO Configuration: 2x2 (2-stream)
- MU-MIMO (Uplink & Downlink)
- 4K QAM
- OFDMA (Uplink & Downlink)
- High Band Simultaneous (HBS) Multi-Link
- Wi-Fi Security: WPA3-Enterprise, WPA3- Enhanced Open, WPA3 Easy Connect, WPA3-Personal

Integrated Bluetooth

- Bluetooth Audio: Snapdragon Sound™ Technology Suite, Qualcomm® aptX™ Voice, aptX Lossless, aptX Adaptive, and LE Audio
- Bluetooth Features: Bluetooth 5.4, LE Audio, Dual Bluetooth antennas

## Audio

Qualcomm Aqstic™ audio codec

Qualcomm Aqstic smart speaker amplifier

Total Harmonic Distortion + Noise (THD+N)

Playback: -108dB

Qualcomm® Audio and Voice Communication Suite

Spatial audio with head tracking

## Camera

Qualcomm Spectra™ Image Signal Processor

- Cognitive ISP, Triple 18-bit ISPs

Real-time Semantic Segmentation photo and video processing (up to 12 layers)

Support for all types of HDR image sensors (DCG, sHDR, MFHDR)

Support for triple video capture from HDR image sensors, with seamless switching between any HDR mode

- Up to 36 MP triple camera @ 30 FPS with Zero Shutter Lag
- Up to 64+36 MP dual camera @ 30 FPS with Zero Shutter Lag
- Up to 108 MP single camera @ 30 FPS with Zero Shutter Lag
- Up to 200 megapixel photo capture

AI-based face detection, AI for 3A (auto-focus, auto-exposure, and auto-white balance)

Rec. 2020 color gamut photo and video capture

4K HDR video capture + 64 MP photo capture

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

Google Ultra HDR photo capture

Video capture HDR formats: HDR10+, HDR10, HLG, Dolby Vision

4K HDR video capture @ 60 FPS

4K video capture @ 60 FPS

Slow-mo video capture at 1080p @ 240 FPS

Bokeh Engine 2 for video capture

Pro Sight video capture

Snapdragon Low Light Vision (LLV)

Video super resolution

Multi-Frame Noise Reduction (MFNR)

Locally Motion Compensated Temporal Filtering

## Display

On-Device Display Support:

- 4K @ 60 Hz
- QHD+ @ 144 Hz

Maximum External Display Support:

- Up to 8K UHD @ 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 Kryo CPU

- 64-bit Architecture
- 1 Prime core, up to 2.8 GHz
- Arm® Cortex™-X4 core
- 4 Performance cores, up to 2.6 GHz
- 3 Efficiency cores, up to 1.9 GHz

## Visual Subsystem

Video decode up to 4K at 60 FPS (native decode support VP9, H.264, H.265 formats)

Adreno GPU

- Snapdragon Game Super Resolution
- Adreno Frame Motion Engine 2.0
- Snapdragon Game Post Processing Accelerator

# Specs & Features

- HDR gaming (10-bit color depth, Rec. 2020 color gamut)
- API support: OpenGL® ES 3.2, OpenCL™ 2.0 FP, Vulkan™ 1.3
- Hardware-accelerated H.265, VP9
- 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 (TEE) for use cases requiring higher processing assurance

Qualcomm® Type-1 Hypervisor for isolation from the high-level OS

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)

Sensor-Assisted Positioning 6.0

- With global map aiding
- 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

Memory Density: Up to 24 GB

## General Specifications

Select Snapdragon Elite Gaming™ features

4nm Process Technology

USB Version 3.1 Gen 2; USB Type-C Support

Storage: UFS 4.0

Part Number: SM7675-AB

