

SNAPDRAGON® 7s GEN 2 MOBILE PLATFORM

Elevate your potential with the Snapdragon® 7s Gen 2 Mobile Platform. Choose your own adventure with bold performance and radiant gaming, while seamlessly keeping your day on track with convenient AI. Plus, capture wow-worthy photography and 4K HDR videography while enjoying endless connectivity on your exploration of next-level Snapdragon experiences.



Bold performance

Live boldly with dynamic performance at your fingertips. Reaching peak speeds up to 2.4 GHz, our Qualcomm® Kryo™ CPU delivers smooth and efficient interactions. Enjoy lossless, glitch-free audio with support of Snapdragon Sound™ Technology Suite. Plus, recharge from 0–50% in just five minutes.

- 4nm process delivers fast, robust performance with great power efficiency
- Qualcomm® aptX™ audio for improved Bluetooth® sound quality
- Qualcomm® Quick Charge™ 4+ Technology enables astonishing charging speeds

Radiant gaming

Conquer to your heart's content with select Snapdragon Elite Gaming™ features that heighten every sight, sound, and strategy. Qualcomm® Game Quick Touch reduces latency to the millisecond, while Variable Rate Shading optimizes graphics rendering for long-lasting competition. Plus, every game scene unfolds seamlessly and vividly with support for FHD+ 144Hz displays—leaving our competitors in the dust.

- Qualcomm® Adreno™ GPU generates stutter-free, brilliant visuals
- Qualcomm® Game Color Plus boosts saturation, contrast, and detail
- HDR gaming with 10-bit color depth

Convenient AI

Intelligent virtual assistants are always ready for the next command thanks to an optimized Qualcomm® AI Engine, helping you with navigation, music, health, and other apps without lifting a finger. Plus, AI-enabled noise cancellation makes your voice heard no matter where you video call.

- Next-gen Qualcomm® Hexagon™ NPU for improved AI network performance
- Dedicated AI Engine features an always-on Qualcomm® Sensing Hub for quickly scanning QR codes, face unlock, and more.
- AI-enhanced camera with Qualcomm® Low Light for crisp, well-lit photos and videos

Wow-worthy photography and videography

Re-live unforgettable moments, whether you're filming once-in-a-lifetime excursions or photographing fond family memories. Capture jaw-dropping details in up to 200 MP or snap from three cameras at once with our Triple ISP. Plus, record in 4K HDR, producing incredible realism with peak brightness and deep blacks.

- Qualcomm Spectra™ ISP offers triple concurrent capture with ultra-fast parallel processing and smooth zoom for impressively detailed photos and videos
- AI De-Noising (AIDE) neural network renders sharper, clearer photos

Endless connectivity

Follow inspiration anywhere with everything you need already in your pocket. Share, stream, and communicate on-the-go or take on cloud gaming with blazing 5G and Wi-Fi speeds. When you're on the move, Snapdragon has you covered.

- Snapdragon X62 5G Modem-RF System offers 3GPP Release 16 with support for extensive 5G commercial global networks, including sub-6 GHz and mmWave
- Qualcomm® FastConnect™ 6700 Mobile Connectivity System features Wi-Fi 6E with integrated Bluetooth 5.2
- Accurate location positioning from Qualcomm® Location Suite

SPECIFICATIONS & 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 mix precision (INT8+INT16)
- Support for all precisions (INT8+INT16)

Qualcomm® Sensing Hub

- Dedicated AI Processors for audio and sensors

5G Modem-RF System

Snapdragon® X62 5G Modem-RF System

- 5G mmWave and sub-6 GHz, standalone (SA) and non-standalone (NSA) modes, FDD, TDD
- Dynamic Spectrum Sharing
- mmWave: 2 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 2.9 Gbps

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

Wi-Fi & Bluetooth®

Qualcomm® FastConnect™ 6700 System

- Wi-Fi Standards: Wi-Fi 6E, Wi-Fi 6 (802.11ax), Wi-Fi 5 (802.11ac), 802.11a/b/g/n
- Wi-Fi Spectral Bands: 2.4 GHz, 5 GHz, 6 GHz
- Peak speed: 2.9 Gbps
- Channel Bandwidth: 20/40/80/160 MHz
- MIMO Configuration: 8x8 Sounding
- MU-MIMO (Uplink and 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 5.2, LE Audio

Snapdragon Sound™ Technology with support for Qualcomm® aptX™ Voice, aptX Lossless, aptX Adaptive

Camera

Qualcomm Spectra™ Image Signal Processor

- Triple 12-bit ISPs
- Up to 16 MP triple camera @ 30 FPS with Zero Shutter Lag
- Up to 32+16 MP dual camera @ 30 FPS with Zero Shutter Lag
- Up to 48 MP (or 64 MP binned) single camera @ 30 FPS with Zero Shutter Lag
- Up to 200 Megapixel Photo Capture

Deep learning-based face detection, facial landmark detection, auto-focus, and auto-exposure

AI De-noiser (AIDE) for low-light snapshot

Rec. 2020 color gamut photo and video capture

Up to 10-bit color depth photo and video capture

4K @ 30 FPS HDR Video Capture + 48 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 staggered HDR, multi-frame HDR and limited-blanking multi-frame HDR image sensors

Multi-Frame Noise Reduction (MFNR)

Locally Motion Compensated Temporal Filtering

Audio

Qualcomm Aqstic™ audio codec

Qualcomm Aqstic smart speaker amplifier

Total Harmonic Distortion + Noise (THD+N),

Playback: -108dB

Qualcomm® Audio and Voice Communication Suite

Display

On-Device Display Support:

- FHD+ @ 144 Hz

Maximum External Display Support:

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

CPU

Kryo CPU

- 64-bit Architecture
- 4 Performance cores, up to 2.4 GHz
- 4 Efficiency cores, up to 1.95 GHz

Visual Subsystem

Adreno GPU

- HDR gaming (10-bit color depth)
- API Support: OpenGL® ES 3.2, OpenCL™ 2.0 FP, Vulkan® 1.13
- Hardware-accelerated H.265 and VP9 decoder
- HDR Playback Codec support for HLG, HDR10, and HDR vivid

Security

Platform Security Foundations, Trusted Execution

Environment & Services

Trust Management Engine

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

Qualcomm® Type-1 Hypervisor

Location

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

Dual frequency GNSS (L1/L5)

Sensor-Assisted Positioning

- Urban pedestrian navigation with sidewalk accuracy
- Global freeway lane-level vehicle navigation

Charging

Qualcomm® Quick Charge™ 4+ Technology

Memory

Support for LP-DDR5 memory up to 3200 MHz
Support for LP-DDR4X memory up to 2133 MHz

Memory Density: up to 12 GB

General Specifications

Select Snapdragon Elite Gaming™ features

4nm Process Technology

USB Version 3.1; USB Type-C Support

Part Number: SM7435-AB

Storage: UFS 3.1

