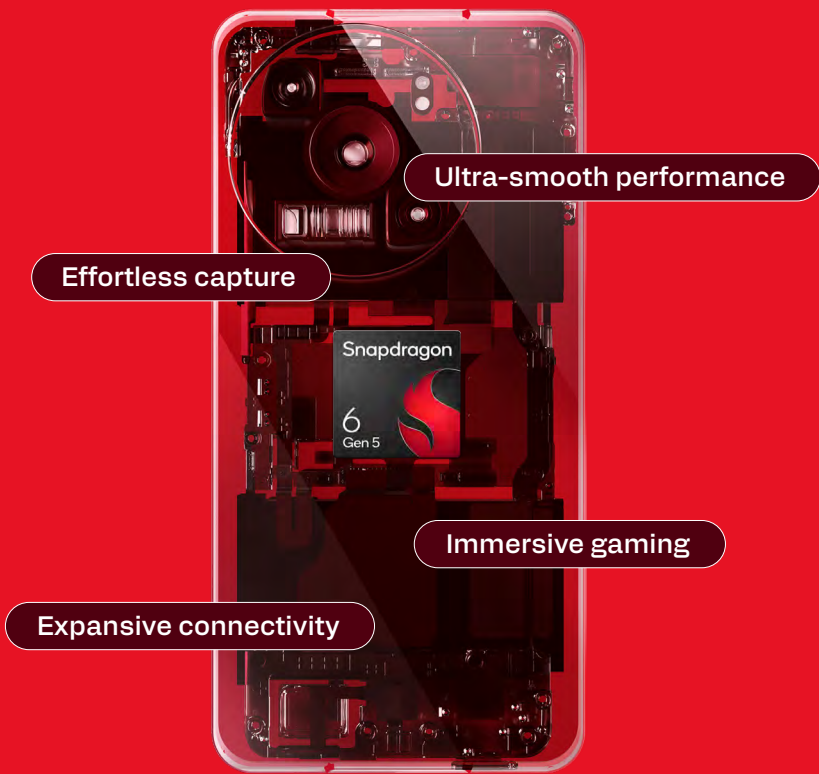


# Tap into new experiences with the **Snapdragon<sup>®</sup> 6 Gen 5 Mobile Platform.**



For the bold dreamers who are ready to do more, this is where your journey levels up. Dive into AI-powered camera experiences that capture what inspires you—right in the moment. Experience ultra-smooth performance you can feel, with fast, responsive interactions that keep up with your every move. Get lost in immersive gaming, playing longer with action that runs smoother. All backed by exceptional battery life and fast, reliable 5G and Wi-Fi 7 connectivity—so wherever life takes you, adventure awaits.

## Ultra-smooth performance

Propel your ambitions forward and feel empowered to reach new heights, thanks to responsive performance and extended battery life—whether you're multitasking across apps or gaming in your downtime.



- Wait less and accomplish more with Snapdragon Smooth Motion UI delivering 18% less screen stutter and 20% faster app launches.
- Whether commuting, creating, or gaming, dependable battery life prolongs your momentum.
- Visuals are more vibrant and fluid with a 21% boost in GPU performance.
- Stay engaged as you multitask, stream, and capture with CPU speeds up to 2.6 GHz.

## Expansive connectivity

From crowded cities to backroad excursions, staying connected should feel effortless. With first-in-series Release 17 5G, every stream, upload, and video call on the go is instant, while Qualcomm Smart Network selection automatically switches to the strongest available signal. Plus, with first-in-series Wi-Fi 7, you can enjoy fast, reliable wireless connectivity at home, in the office, or on public networks, enabling a seamless experience wherever you are.



- Make clear, stutter-free video calls with first-in-series FDD uplink delivering rapid upload speeds.
- Locate wireless devices, like earbuds and speakers, thanks to first-in-series Bluetooth® 6.0 wireless technology with Channel Sounding.
- First-in-series Qualcomm® Expanded Personal Area Network (XPAN) technology offers uninterrupted wireless audio, even when moving between rooms or stepping away from your phone.

## Effortless capture

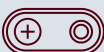
Capture memories that look as vivid as they felt in the moment. AI-enabled features make every photo and video sharper, brighter, and true-to-life—no matter the distance or time of day.



- AI-based Night Vision technology pulls in more light after dark, capturing clear, vibrant shots around the clock.
- Far away subjects and scenes come out crystal-clear with zoom up to 100x.
- Bring videos to life with HDR10 delivering richer color and clearer detail, even in scenes with bright and dark areas.

## Immersive gaming

More frames, longer sessions, and brilliant visuals pull you deep into the action, thanks to Snapdragon Elite Gaming™ Features bringing mobile competition to life across today's most popular titles.



- First-in-series Qualcomm® Adaptive Performance Engine 3.0 powers peak gameplay, delivering sustained FPS while enhancing power savings from start to finish.
- Snapdragon® Game Super Resolution intelligently upscales gaming scenes for superior visual quality while maximizing mobile performance and battery life.
- Say goodbye to lag and stutter with Qualcomm® Frames Per Second 3.0 intelligently managing performance for smooth, heart-pumping scenes.

# Specs & Features



## 5G Modem-RF System

Qualcomm® 5G Modem-RF System

5G sub-6 GHz

SA, NSA, TDD, FDD, TDD-FDD aggregation

Dynamic Spectrum Sharing

### FDD Power Class 2 for Uplink

Sub-6 GHz: 140 MHz bandwidth

### Qualcomm Smart Network Select 3.0

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 2.8 Gbps

## Wi-Fi & Bluetooth®

Qualcomm® FastConnect™ Mobile Connectivity System

- **Wi-Fi Generation: Wi-Fi 7**
- Standards: 802.11be, 802.11ax, 802.11ac, 802.11a/b/g/n
- Peak speed: 5.8 Gbps
- Channels: Up to 320MHz

MU-MIMO (Uplink and Downlink)

Integrated Bluetooth

- **Bluetooth 6.0, LE Audio, Bluetooth Channel Sounding**

## Camera

Qualcomm Spectra™ Image Signal Processor

Dual 12-bit ISPs

Up to 16+16 MP dual camera @ 30 FPS with Zero Shutter Lag

Up to 64 MP single camera @ 30 FPS with Zero Shutter Lag

Up to 200 MP Photo Capture

Video Capture Formats: HEVC, H.264

4K HDR Video Capture @ 30 FPS

Slow-Mo Video Capture at 720p @ 240 FPS

Hardware-Based Multi-Frame Noise Reduction (MFNR)

Hardware-Based Locally Motion Compensated Temporal Filtering

Support for staggered HDR image sensors

### AI-based Night Vision

## Audio

Qualcomm Aqstic™ audio codec

New Qualcomm Aqstic smart speaker amplifier

Total Harmonic Distortion + Noise (THD+N)

Playback: -108dB

Snapdragon Sound™ Technology Suite

### Qualcomm XPAN

87-99920-1 Rev-A

## Display

On-Device Display Support:

- FHD+ @ 144Hz

## CPU

Qualcomm® Kryo™ CPU

- 64-bit Architecture
- 4 Performance cores, up to 2.6 GHz
- 4 Efficiency cores, up to 2.0 GHz

## Visual Subsystem

Qualcomm® Adreno™ GPU

- HDR gaming
- 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

## Security

Trust Management Engine

Qualcomm® wireless edge services (WES) for secure attestation and provisioning

Qualcomm® Type-1 Hypervisor

## Charging

Qualcomm® Quick Charge™ 5 technology

## Location

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

## Memory

Support for LP-DDR4x memory, up to 2100 MHz

Support for LP-DDR5 memory, up to 3200 MHz

Memory Density: Up to 16 GB

## General Specifications

Select Snapdragon Elite Gaming™ Features

4nm Process Technology

Storage: UFS 3.1

USB Version 2.0; USB Type-C Support

Part Number: SM6850