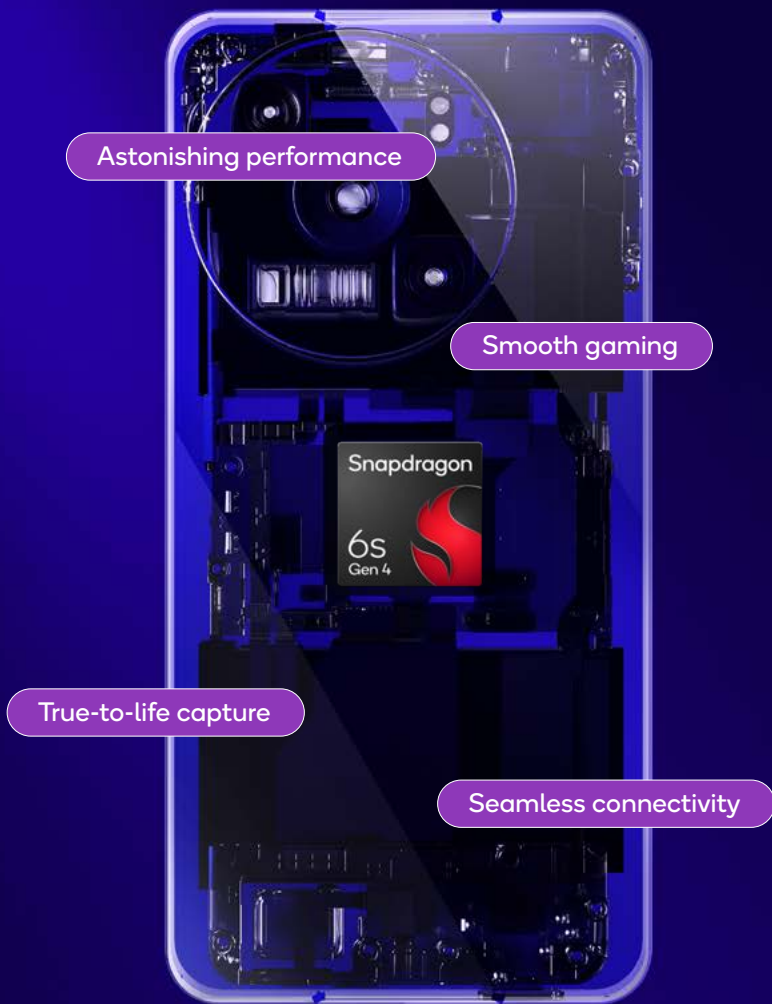


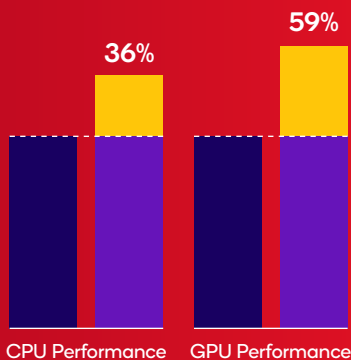
SNAPDRAGON® 6s GEN 4 MOBILE PLATFORM



The Snapdragon 6s Gen 4 Mobile Platform is where power meets precision. Its advanced 4nm architecture, 36% improved CPU, and 59% faster GPU enables longer battery life and optimized on-device experiences. Plus, immerse yourself in smooth gaming at 144 FPS and capture memories that are true-to-life with 200 MP photos and high-resolution video—all backed by seamless 5G and Wi-Fi 6E connectivity. Familiar experiences, elevated.

Astonishing performance

Enjoy smoother multitasking, faster app loading times, and enhanced overall system performance—making every interaction with your device a pleasure.



Comparisons made to previous generation.

Smooth gaming

Immerse yourself in the world of mobile gaming with support for ultra-smooth 144 FPS at FHD+ resolution.



- Variable Rate Shading adjusts shading rates across different screen areas, optimizing graphics performance in both quality and speed.
- Qualcomm® Game Quick Touch reduces touch latency, making controls faster and more responsive.

True-to-life capture

Bring your memories to life with highly detailed photo and high-resolution video capture from the Qualcomm Spectra™ ISP.



- Capture snapshots at 200 MP that are able to zoom in and still retain sharp picture quality.
- Hardware-accelerated Multi-Frame Noise Reduction (MFNR) rapidly process images, combining them to reduce noise and improve clarity in low-light conditions.

Seamless connectivity

Enjoy seamless streaming, lag-free online gaming, and quick downloads from virtually anywhere.



- Qualcomm® 5G Modem-RF System delivers blazing fast Release 16 5G.
- Qualcomm® FastConnect™ Mobile Connectivity System provides high-speed Wi-Fi 6E and reliable Bluetooth® connectivity.

Camera

200 MP

High-Res Video

Hardware-Accelerated
Multi-Frame
Noise Reduction



Performance

36%

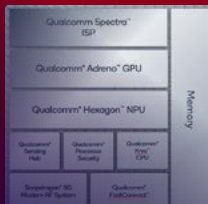
Improved CPU

59%

Improved GPU

4nm

Process Node



Snapdragon

6s
Gen 4

Gaming

Variable Rate
Shading

Qualcomm Game
Quick Touch

144 Hz FHD+



Connectivity

Release 16 5G

Wi-Fi 6E

Bluetooth® 5.4
Technology





SPECS & FEATURES

5G Modem-RF System

- Qualcomm® 5G Modem-RF System
- 5G mmWave and sub-6 GHz
 - SA, NSA, TDD, FDD, TDD-FDD aggregation
 - Dynamic Spectrum Sharing
 - mmWave: 200 MHz bandwidth, 2 carriers
 - Sub-6 GHz: 140 MHz bandwidth
 - Qualcomm® 5G PowerSave 2.0
 - Qualcomm® Smart Transmit™ 2.0 technology
 - Qualcomm® Wideband Envelope Tracking
 - Global 5G multi-SIM

Downlink: Up to 2.9 Gbps

Multimode support: 5G NR, LTE, mmWave, sub6 dual connectivity (NR-DC), EN-DC, CBRS, WCDMA, HSPA, CDMA 1x, EV-DO, GSM/EDGE

Wi-Fi & Bluetooth®

- Qualcomm® FastConnect™ Mobile Connectivity System
- Wi-Fi Generation: Wi-Fi 6E
 - Standards: 802.11ax, 802.11ac, 802.11a/b/g/n
 - 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 5.4, LE Audio, Dual Bluetooth antennas

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 32 MP single camera @ 30 FPS with Zero Shutter Lag
 - Up to 200 MP Photo Capture

Video capture formats: HEVC, H.264

2K HDR video capture @ 30 FPS

Slow-mo video capture at 720p @ 240 FPS

Hardware-Based Multi-Frame Noise Reduction (MFNR)

Audio

- Qualcomm Aqstic™ audio codec
- Qualcomm Aqstic smart speaker amplifier
- Total Harmonic Distortion + Noise (THD+N)
- Playback: -108 dB
- Snapdragon Sound™ Technology Suite

Display

On-Device Display Support:

- FHD+ @ 144 Hz

CPU

- Qualcomm® Kryo™ CPU
- 64-bit Architecture
 - 4 Performance cores, up to 2.4GHz
 - 4 Efficiency cores, up to 1.8GHz

Visual Subsystem

- Qualcomm® Adreno™ GPU
- Vulkan® 1.1 API support
 - HDR gaming (10-bit color depth, Rec. 2020 color gamut)
 - API Support: OpenGL® ES 3.2, OpenCL™ 2.0 FP, Vulkan 1.1
 - Hardware-accelerated H.265 and VP9 decoder
 - HDR Playback Codec support for HLG

Security

Qualcomm® Trusted Execution Environment (TEE)

Trust Management Engine

Qualcomm® wireless edge services (WES)

Qualcomm® Type-1 Hypervisor

Charging

Qualcomm® Quick Charge™ 4+ Technology

Location

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

Memory

Support for LP-DDR4x memory, up to 2100 MHz

Support for LP-DDR5x memory, up to 3200 MHz

Memory Density: Up to 12 GB

General Specifications

4nm Process Technology

Storage: UFS 3.1

USB Version 3.1; USB Type-C Support

Part Number: SM6435-AA