Snapdragon®
4 Gen 4

- Purpose-built performance
- Picture-perfect capture
- Remarkable battery life
- Swift 5G and Wi-Fi

Delight in mobile experiences, everywhere, with the Snapdragon® 4 Gen 4 Mobile Platform. Built for effortless use, enjoy impressively smooth responsiveness and sharp, brilliant capture—all day. Plus, with reliable 5G and Wi-Fi connectivity, you're ready for anything.

Purpose-built performance

Enhance everything—from mobile gaming to multitasking—with fast data processing and ample storage. And, with LPDDR5 memory up to 3.2 GHz, overall system performance gets a boost to work and play with ease.

- Qualcomm® Kryo™ CPU provides seamless performance with up to 2.3 GHz peak speeds.
- Qualcomm® Adreno™ GPU renders smooth, crisp graphics.
- 120 FPS display refresh rate ups immersion while gaming on the go.

Picture-perfect capture

Turn everyday moments into memories with a 36 MP camera that captures incredible detail. Leave blur behind with an autofocus system that responds in an instant, while AI-enhanced low-light technology reveals rich color and clear definition long after sunset.

- Qualcomm Spectra™ ISP allows concurrent, multi-camera capture for photos and videos.
- Hardware-based Multi-Frame Noise Reduction eliminates grainy aspects within the frame to deliver high-quality results.

Remarkable battery life

Power through your busiest days with a battery that lasts as long as you do. And when it is time to finally plug in, rapid-charge technology gets your battery halfway in just minutes.

- Qualcomm® Quick Charge™ 4+ Technology takes devices from 0 to up to 50% in only 15 minutes.*
- 4nm processing node enhances overall efficiency for increased power savings.

*Quick Charge is designed to increase the battery charge of a device by up to 50% in 15 minutes. Actual results may vary depending on device design.

Swift 5G and Wi-Fi

Share, browse, and stream from virtually anywhere, thanks to speedy, low-latency 5G and reliable Qualcomm® Wi-Fi 5 connections. Plus, with Beidou satellite system integration automatically enabled by default, you're always connected while on the move.

- Qualcomm® 5G Modem-RF System enables download speeds up to 2.5 Gbps.
- Release 16 5G facilitates fast, widespread coverage—wherever your day takes you.

Specs & Features

5G Modem-RF System

Qualcomm® 5G Modem-RF System

Sub-6 GHz, standalone (SA) and non-standalone (NSA) modes, FDD, TDD

Dynamic Spectrum Sharing

Sub-6 GHz: 100 MHz bandwidth, 4x4 MIMO

Qualcomm® 5G PowerSave

Qualcomm® Smart Transmit™ technology

Qualcomm® Wideband Envelope Tracking

Qualcomm® AI-Enhanced Signal Boost

Global 5G multi-SIM

Downlink: Up to 2.5 Gbps

Uplink: Up to 900 Mbps

Multimode support: 5G NR, LTE, EN-DC, CBRS, WCDMA, HSPA, CDMA 1x, EVDO, GSM/EDGE

Wi-Fi & Bluetooth®

Qualcomm® Wi-Fi 5

- Wi-Fi generation: Wi-Fi 5
- Standards: 802.11ac, 802.11a/b/g/n
- Wi-Fi spectral bands: 2.4 GHz, 5 GHz
- Channel bandwidth: 20/40/80 MHz
- Wi-Fi security: WPA3-Enterprise, WPA3-Enhanced Open, WPA3 Easy Connect, WPA3-Personal

Integrated Bluetooth

- Bluetooth version: 5.1

Camera

Qualcomm Spectra™ Image Signal Processor

Dual 12-bit ISPs

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

Up to 36MP single camera with 30 FPS with Zero Shutter Lag

Up to 108 MP photo capture

1080p single video capture @ 60 FPS

1080p dual video capture @ 30 FPS

HEIC photo capture

H.264 (AVC) and H.265 (HEVC) video capture

Slow-motion video capture 720p @ 120 FPS

Hardware-accelerated Multi-Frame Noise Reduction

Audio

Qualcomm Aqstic™ audio codec

Qualcomm Aqstic smart speaker amplifier

Qualcomm® aptX™ audio

Display

On-device display support:

- FHD+ @ 120 Hz
- HD+ (900 x 1600 @ 120 Hz)

CPU

Qualcomm® Kryo™ CPU

- 64-bit architecture
- 2 performance cores, up to 2.3 GHz
- 6 efficiency cores, up to 2 GHz

Visual Subsystem

Qualcomm® Adreno™ GPU

- API support: OpenGL® ES 3.2, OpenCL™ 2.0, Vulkan® 1.1
- Hardware-accelerated H.265 and VP9 decoder

Security

Platform security foundations, Trusted Execution Environment, and services:

- Qualcomm® Trusted Execution Environment (TEE)
- Qualcomm® wireless edge services (WES)
- Qualcomm® Attestation Services

Location

GPS, GLONASS, BeiDou, Galileo, NavIC, QZSS

Dual-frequency GNSS (L1 + L5)

Qualcomm® Sensor-Assisted Positioning

- Vehicular and pedestrian navigation accuracy

Charging

Qualcomm® Quick Charge™ 4+ technology

Memory

Support for LP-DDR5 memory up to 3,200 MHz

Support for LP-DDR4x memory up to 2,133 MHz

General Specifications

4nm Process Technology

USB 3.2 Gen 1; USB Type-C

Storage: UFS 3.1 2-Lane

Part Number: SM4450-AF