



The Snapdragon® 4 Gen 1 Mobile Platform empowers you to make the most of your favorite moments. Seize the day with impressive performance and useful AI that make interactions seamless and intuitive. Plus, experience striking capture brimming with advanced photography features, as well as swift connectivity to stay in touch—even on the go.

Impressive performance

Make the most of every endeavor, with improved efficiency and power savings across your on-device interactions. Enjoy effortless multitasking throughout the day with near lag-free processing, while getting lost in entertainment with smooth, quick graphics rendering. Plus, when you need to refuel, Qualcomm® Quick Charge™ 4+ Technology powers up to 50% battery life in just 15 minutes.*

- Qualcomm® Kryo™ CPU delivers up to 15% improved performance
- Qualcomm® Adreno™ GPU provides up to 10% improved performance
- Optimized to run select AAA games smoothly, with high FPS and fewer frame drops

Striking capture

Top-quality camera technology takes this tier to new heights. Snap up to 108 MP photos—the highest-quality single shots in the Snapdragon 4-series—or capture pictures and videos from multiple lenses at once. Plus, create memories day or night with Multi-Frame Noise Reduction (MFNR) for crisp, detailed imagery regardless of external lighting.

- The Qualcomm Spectra™ Triple ISP enables concurrent capture
- Improved color lens shading correction
- Up to 13+13+13 MP triple camera @ 30 FPS with zero shutter lag

Useful AI

The Qualcomm® AI Engine makes life intuitive and seamless, infusing intelligence into your daily tasks. Stay productive with responsive, always-on voice assistants able to set alarms, search the web, open apps, and more. And, be heard loud and clear during calls with voice detection, echo cancellation, and background noise suppression.

- Qualcomm® Sensing Hub is always aware, while Qualcomm® Hexagon™ Vector eXtensions (HVX) offload tasks from the CPU for increased power efficiency

Swift connectivity

Connecting with friends and family is effortless—even on the go. The Snapdragon X51 5G Modem-RF System exceeds expectations in the 4-series, offering accelerated 5G for streaming, downloading, sharing, and more. On top of that, the Qualcomm® FastConnect™ 6200 Mobile Connectivity System supports Wi-Fi 5 for fast, reliable home connectivity, even with multiple devices on the same network.

- Highly integrated 2x2 Wi-Fi 5 mobile connectivity chipset
- Support for Bluetooth® 5.2 and WPA3 Security

* 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.

All comparisons made are in reference to previous generation, Snapdragon 480 Mobile Platform. Results will vary depending on OEM implementation and other factors. Battery life varies significantly based on device, setting, usage, and other factors. Snapdragon, Qualcomm Kryo, Qualcomm Adreno, Qualcomm Quick Charge, Qualcomm Spectra, Qualcomm AI Engine, Qualcomm Sensing Hub, Qualcomm Hexagon, and Qualcomm FastConnect are products of Qualcomm Technologies, Inc. and/or its subsidiaries.



Snapdragon

4 mobile platform Gen 1

Artificial Intelligence

Qualcomm® Adreno™ GPU

Qualcomm® Kryo™ CPU

Qualcomm® Hexagon™ Processor

- Hexagon Vector eXtensions (HVX)
- Hexagon Scalar Accelerator

Qualcomm® Sensing Hub

5G Modem-RF System

Snapdragon® X51 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 (5G), 800 Mbps (LTE)

Uplink: Up to 900 Mbps (5G), 210 Mbps (LTE)

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

Wi-Fi & Bluetooth®

Qualcomm® FastConnect™ 6200 System

- Wi-Fi Generation: Wi-Fi 5
- Standards: 802.11ac, 802.11a/b/g/n
- Wi-Fi Spectral Bands: 2.4 GHz, 5 GHz
- Channel Utilization: 20/40/80 MHz
- MIMO Configuration: 2x2
- 8-stream sounding, MU-MIMO
- Target Wake Time (TWT)
- Wi-Fi Security: WPA3-Enterprise, WPA3-Enhanced Open, WPA3 Easy Connect, WPA3-Personal

Integrated Bluetooth

- Bluetooth version: 5.2
- Bluetooth audio: Qualcomm TrueWireless™ Technology

Camera

Qualcomm Spectra™ Image Signal Processor

Triple 12-bit ISPs

Up to 108 MP Photo Capture

Up to 13 MP triple camera with 30 FPS Zero Shutter Lag

Up to 25 MP + 13 MP dual camera with 30 FPS Zero Shutter Lag

Up to 32 MP single camera with 30 FPS Zero Shutter Lag

1080p Single Video Capture @ 60 FPS

1080p Dual Video Capture @ 30 FPS

720p Triple Video Capture @ 30 FPS

HEIC Photo Capture

H.264 (AVC) and H.265 (HEVC) Video Capture

Slow Motion Video Capture 720p @ 120 FPS

Audio

Low Power Audio Subsystem

Qualcomm® cVc™ Echo Cancelling and Noise Suppression (ECNS)

Snapdragon Voice Activation

Total Harmonic Distortion + Noise (THD+N), Playback: -108dB

Hi-Fi Audio with up to 384 kHz/32-bit

Qualcomm Aqstic smart speaker amplifier

Qualcomm Aqstic audio codec

Display

On-Device Display Support:

- FHD+ (1080 x 2520 @ 120 Hz)
- HD+ (900 x 1600 @ 120 Hz)

CPU

Kryo CPU

- Up to 2.0 GHz
- 64-bit architecture

Visual Subsystem

Adreno GPU

- H.264 (AVC), H.265 (HEVC), VP9 playback
- API Support: OpenGL® ES 3.2, OpenCL™ 2.0, Vulkan® 1.1

Security

Platform Security Foundations: Secure Boot, Debug Security, HW Crypto Cores, HW/SW Key Management, HW/SW storage security, Peripherals Security

Trusted Execution Environment and Services:

- Qualcomm® Trusted Execution Environment (TEE)

Qualcomm® wireless edge services (WES)

- Qualcomm® Attestation Services

Charging

Qualcomm® Quick Charge™ 4+ technology

Location

GPS, GLONASS, BeiDou, Galileo, NavIC, QZSS

Dual-Frequency GNSS (L1 + L5)

Qualcomm® Sensor-Assisted Positioning

Memory

Memory: 2x16 LP4x @ 2133 MHz

Storage: eMMC 5.1, UFS 2.2

General Specifications

6nm Process Technology

USB 3.1; USB Type-C Support

Part number: SM4375

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Certain optional features available subject to Carrier and OEM selection for an additional fee.

Snapdragon, Qualcomm Adreno, Qualcomm Kryo, Qualcomm Hexagon, Qualcomm Sensing Hub, Qualcomm FastConnect, Qualcomm 5G PowerSave, Qualcomm Smart Transmit, Qualcomm Wideband Envelope Tracking, Qualcomm AI-Enhanced Signal Boost, Qualcomm TrueWireless, Qualcomm Spectra, Qualcomm cVc, Qualcomm Aqstic, Qualcomm TEE, Qualcomm Sensor-Assisted Positioning, and Qualcomm Quick Charge are products of Qualcomm Technologies, Inc. and/or its subsidiaries. Qualcomm wireless edge services and Qualcomm Attestation Services are offered by Qualcomm Technologies, Inc. and/or its subsidiaries.

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