Qualcomm
snapdragon
480 5G mobile platform

480

The Qualcomm® Snapdragon™ 480 5G Mobile Platform brings boundless, borderless 5G to the 4-series for the very first time. Get ready to experience series-defying performance and upgraded downtime, while making the connections that count most.

Boundless, borderless 5G

Snapdragon is making history by bringing truly global 5G to our 4-series. Experience super-fast uploads and downloads, along with seamless streaming, navigation, and sharing. Plus, support for multiple frequencies offers complete flexibility and accessibility. This is top-tier connectivity—now available to the masses.

- Qualcomm® Snapdragon™ X51 5G Modem-RF System
- Support for both mmWave and Sub-6 GHz
- Support for SA and NSA modes, plus TDD, FDD, and Dynamic Spectrum Sharing (DSS)

Series-defying performance

Introducing the fastest, most robust platform in its class, by far. With over 100% CPU and GPU improvements, a highly efficient 8 nm processor, and an over 70% AI performance boost versus the predecessor, this platform delivers long-lasting speed, faster graphics rendering, and seamless app performance.

- 4-series firsts: 8 nm processor, Qualcomm® Quick Charge™ 4+ technology, and 2x2 Wi-Fi 6 capabilities
- Qualcomm® Kryo™ 460 CPU and Qualcomm® Adreno™ 619 GPU upgraded since the predecessor for incredible performance and visuals
- Qualcomm® Sensing Hub offers always-on contextual awareness

Upgrade your downtime

Upgrade your entertainment across the board. Brilliant visuals, flawless streaming, select AAA game optimization, immersive audio—and more! Whether at home or on-the-go, this is entertainment never before experienced in a 4-series platform.

- Boosted CPU and GPU complement the first 120 fps FHD+ display support in a 4-series
- Qualcomm® aptX™ Audio and Bluetooth 5.1 capabilities produce crisp, clear audio
- 5G-capable and Wi-Fi 6-ready for lightning-fast content downloads and smooth streaming

Connections that count

With first-in-series 5G and Wi-Fi 6-ready capabilities, wireless connections mean personal connections. Share photos, livestream, or game with friends in real time. Communicate with loved ones, in person or digitally. Make the trip using reliable navigation or join a video call with AI-based background noise suppression. This is true networking, as it should be.

- 2x2 Wi-Fi 6-ready and Snapdragon X51 5G Modem-RF System (both firsts in 4-series)
- Dual-frequency GNSS and NavIC
- Qualcomm Spectra™ 345 ISP plus AI-enhanced camera features
- First Triple ISP in the 4-series: capture three videos or photos simultaneously

To learn more visit
snapdragon.com

480 5G Mobile Platform

SPECIFICATIONS & FEATURES

Qualcomm® Artifical Intelligence (AI) Engine

- Adreno 619 GPU
- Kryo 460 CPU
- Qualcomm® Hexagon™ 686 Processor
  - Hexagon Vector eXtensions
  - Hexagon Scalar Accelerator
- Qualcomm Sensing Hub
  - Ultra low power hub for audio, voice and sensors
  - Supports multiple hardware accelerated always-on voice assistants
  - Multi-mic far-field detection and echo cancellation

5G Modem-RF System

- Snapdragon X51 5G Modem-RF System – Modem to antenna integrated system for 5G multimode
- 5G mmWave and sub-6 GHz, standalone (SA) and non-standalone (NSA) modes, FDD, TDD
- Dynamic Spectrum Sharing
- mmWave: 200 MHz bandwidth, 2x2 MIMO
- Sub-6 GHz: 100 MHz bandwidth, 4x4 MIMO
- Qualcomm® 5G PowerSave
- Qualcomm® Smart Transmit™ technology
- Qualcomm® Wideband Envelope Tracking
- Qualcomm® Signal Boost adaptive antenna tuning
- Global 5G multi-SIM
- Downlink: Up to 2.5 Gbps (5G), 800 Mbps (LTE)
- Uplink: Up to 660 Mbps (5G), 210 Mbps (LTE)
- Multimode support: 5G NR, LTE including CBRS, WCDMA, HSPA, TD-SCDMA, CDMA 1x, EV-DO, GSM/EDGE

Wi-Fi & Bluetooth

- Qualcomm® FastConnect™ 6200 System
  - Wi-Fi Standards: Wi-Fi 6-ready, 802.11ac Wave 2, 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: 5.1
  - Bluetooth audio: Qualcomm TrueWireless™ Technology, aptX Adaptive

Camera

- Qualcomm Spectra™ 345 Image Signal Processor
- Triple 12-bit ISPs
- Up to 64 MP Photo Capture
- Up to 13 MP triple camera with 30 FPS Zero Shutter Lag and Multi-Frame Noise Reduction
- Up to 25 MP + 13 MP dual camera with 30 FPS Zero Shutter Lag and Multi-Frame Noise Reduction
- 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

- Qualcomm Aqstic™ audio codec (Up to WCD9385)
  - Total Harmonic Distortion + Noise (THD+N), Playback: -108dB
  - Native DSD support, PCM up to 384 kHz/32-bit
  - Customizable "Golden Ears" filter
- Low power audio subsystem
- DSP offload for low power audio playback (Bluetooth, USB digital, analog out)

Display

- On-Device Display Support:
  - FHD+ (1080 x 2520 @ 120 Hz)
  - HD+ (900 x 1600 @ 120 Hz)

CPU

- Kryo 460, Octa-core CPU
  - Up to 2.0 GHz
  - 64-bit architecture

Visual Subsystem

- Adreno 619 GPU
- H.264 (AVC), H.265 (HEVC) VP8 and VP9 playback
- API Support: OpenGL® ES 3.2, OpenCL™ 2.0, Vulkan® 1.1

Security

- Platform Security Foundations: Qualcomm® Mobile Security, Qualcomm® Processor Security, Secure Boot, FIPS certified Hardware Crypto Cores, Hardware Key Manager
- Trusted Execution Environment and Services: Qualcomm® Trusted Execution Environment (QTEE), Camera Security Framework, Trusted UI Framework, Qualcomm® Malware Protection
  - Trusted framework for enabling secure use cases like biometric authentication, digital payments, and more.
- Premium security features: Qualcomm® Content Protection, Wireless Connection Security (Cellular & WiFi), Qualcomm® Wireless Edge Services (WES)

Charging

- Quick Charge 4+ technology
- LocationBeidou, Galileo, GLONASS, NavIC, GPS, GNSS, QZSS
- Dual-Frequency GNSS (L1 + L5)
- Qualcomm® Sensor-Assisted Positioning

General Specifications

- Memory: eMMC, UFS 2.2, 2x16 LP4x @ 2133 MHz
- Storage: eMMC 5.1, UFS 2.2
- Near Field Communications (NFC) support
- USB Type-C support
- 8 nm Process Technology
- Part number: SM4350