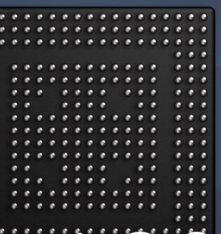# Snapdragon
480+ 5G mobile platform

480+

The Snapdragon® 480+ 5G Mobile Platform is a 4-series showstopper, offering sped-up processing and truly global 5G for improved entertainment, communication, and productivity experiences for everyone. Faster on-device interactions and seamless performance from virtually anywhere designed to astound—and deliver high-quality experiences to more people than ever.

Truly global 5G entertainment

Dive into diversions from here, there, and everywhere with multi-gigabit connectivity that supports all key regions. Stream on-the-go, game from remote locations, or share from crowded arenas. Plus, communicate in real-time with friends, family, and followers across the world. This 5G is truly global, truly accessible, and truly astonishing.

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

Boosted performance

This Snapdragon leaps ahead of its peers, harnessing the power of best-in-series technology. Our re-architected CPU offers fast on-device interactions and flawless app performance, while the GPU delivers strikingly smooth graphics. And with Qualcomm® Quick Charge™ 4+ Technology, the action never stops for long. Immerse yourself in smooth gameplay, seamless streaming, advanced photography, and more—without a hitch.

- Upgraded Qualcomm® Kryo™ 460 CPU delivers speeds up to 2.2 GHz
- Qualcomm® Adreno™ 619 GPU fastest in the 4-series
- Efficient 8nm process preserves power

More ways to play

Make the most of your favorites with tier-defying capabilities. Our triple ISP enables up to 64 MP photos plus triple concurrent capture—made pro-quality with AI enhancements. Display support up to 120 FPS FHD+ combines with Qualcomm® aptX™ Audio for fully immersive games, movies, and shows. And with multi-gigabit connectivity, entertainment knows no bounds.

- Qualcomm Spectra™ 345 ISP for simultaneous triple capture
- Low Light capture
- Fastest Qualcomm® AI Engine in the 4-series

Sensational connectivity

Extra-fast and robust connectivity empowers every move. Truly global 5G delivers lag-free gaming, live streaming, and navigating, while 2x2 Wi-Fi with advanced features offers reliable speed and enhanced capacity—even with multiple users on the same network. Plus, experience pristine, interruption-free video calls with AI-backed noise cancellation.

- Qualcomm® FastConnect™ 6200 System with 2x2 Wi-Fi
- Dual-frequency GPS with NavIC
- AI-based echo cancellation and background noise suppression

To learn more visit
snapdragon.com

480+ 5G mobile platform

SPECIFICATIONS & FEATURES

Qualcomm Artifical Intelligence (AI) Engine

- Qualcomm® Adreno™ 619 GPU
- Qualcomm® 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® AI-Enhanced Signal Boost
- 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: 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: 5.2
  - Bluetooth audio: Qualcomm TrueWireless™ Technology, Qualcomm® aptX™ Adaptive Audio

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 2.2 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 (TEE), 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

Location

- Beidou, Galileo, GLONASS, NavIC, GPS, GNSS, QZSS
- Dual-Frequency GNSS (L1 + L5)
- Qualcomm® Sensor-Assisted Positioning

General Specifications

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