Qualcomm
snapdragon
662 mobile platform

662

The Qualcomm® Snapdragon™ 662 Mobile Platform delivers brilliant mobile experiences with astonishing AI, dynamic camera capabilities and robust performance.

Brilliant, intuitive experiences

Your mobile device should work smarter, not harder. The 3rd gen Qualcomm® AI Engine delivers astonishing AI, powering more intuitive on-device interactions. With the new Qualcomm® Sensing Hub, your device is designed to quickly respond to your needs—even in noisy settings—so you can navigate, control smart apps or turn music up without a touch.

- Qualcomm® Hexagon™ Vector eXtensions for improved processing efficiency
- Qualcomm® Sensing Hub enables your favorite voice assistant to be always-on, awaiting your command

Dynamic camera capabilities

Capture stunning, detailed images at surprising speeds with the Qualcomm Spectra™ 340T ISP, supporting a 48 MP capture and zero shutter lag. Plus, the Snapdragon 662 is the first in our 6-series to support the HEIF format, allowing you to store high-quality photos at half the size. With compatibility across the newest Snapdragon platforms, edit intuitively, store efficiently and share quickly.

- Capture at all new angles with multi-camera support
- Multi-camera features including extreme zoom and ultra-wide lenses

Robust performance

In our fast-paced world, efficiency is key to success. The Snapdragon 662 delivers increased speeds and sustained performance powered by the new Qualcomm® Kryo™ 260 CPU architecture, so you can multitask seamlessly with less lag. You'll also enjoy games and videos with vivid graphics thanks to the Qualcomm® Adreno™ 610 GPU.

- Kryo 260 CPU up to 2.0 GHz
- 11 nm Process Technology for improved performance and lower power consumption

Speedy location tracking

Leave re-routes behind with first-in-series dual-frequency GNSS support and India's NavIC satellite system support. This platform provides precise location tracking with up to 6x more accuracy in dense urban areas—so you'll always know where to turn next.

- First-in-series to support India's NavIC satellite system
- First-in-series to support Dual Frequency GNSS (L1 and L5)
- Qualcomm® Sensor-Assisted Positioning

Connect confidently

Life revolves around strong connections and your device should be no exception. As our first 6-series mobile platform with integrated Qualcomm® FastConnect™ 6100 Mobile Connectivity System, the Snapdragon 662 is Wi-Fi 6-ready for powerful connections that include battery-saving benefits and enhanced Bluetooth 5.1 capabilities. Wi-Fi 6 also supports WPA-3 security, so you can connect confidently.

- Supports optional and mandatory elements of WPA-3 Wi-Fi Security protocol with robust security across a wide range of environments and applications
- Bluetooth 5.1 provides improvement in power performance from previous generation

To learn more visit
snapdragon.com

Qualcomm® Snapdragon™

662 Mobile Platform

SPECIFICATIONS & FEATURES

AI Engine

- Adreno 610 GPU
- Kryo 260 CPU
- Hexagon 683 Processor
  - Hexagon Vector eXtensions
  - Hexagon Scalar Accelerator
- Qualcomm Sensing Hub
  - Ultra low power hub for audio, voice and sensors
  - Support for fusing contextual data streams including sensors, audio and voice
  - Supports multiple hardware-accelerated always-on voice assistants
  - Multi-mic far-field detection and echo cancellation

Modem and RF Front-End

- Snapdragon X11 LTE modem
- Downlink: LTE Cat 13 up to 390 Mbps, 2x20 MHz carrier aggregation, up to 256-QAM
- Uplink: LTE Cat 13 up to 150 Mbps, 2x20 MHz carrier aggregation, up to 64-QAM
- 2x2 MIMO
- Supported Cellular Technologies: LTE FDD, LTE TDD, WCDMA (DC-HSDPA, HSUPA), TD-SCDMA, EVDO, CDMA 1x, GSM/EDGE
- LTE Dual SIM Dual Standby
- VoLTE with SRVCC to 3G and 2G, HD and Ultra HD Voice (EVS), CSFB to 3G and 2G
- Wi-Fi calling with call continuity between LTE and Wi-Fi
- Qualcomm® Signal Boost adaptive antenna tuning
- High-power transmit (HPUE)

Wi-Fi & Bluetooth

- FastConnect 6100 Subsystem
  - Wi-Fi Standards: 802.11ax-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: 1x1
- 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, Qualcomm® aptX™ Adaptive

Camera

- Qualcomm Spectra 340T Image Signal Processor
- Up to 48 MP Photo Capture
- Up to 13 MP dual camera with Zero Shutter Lag and Multi-Frame Noise Reduction
- Up to 25 MP single camera with Zero Shutter Lag and Multi-Frame Noise Reduction
- Up to 25 MP with Multi-Frame Noise Reduction
- 1080p Video Capture @ 60 FPS
- HEIF: HEIC photo capture, HEVC video capture

Audio

- Qualcomm Aqstic™ audio codec (WCD9370)
  - Total Harmonic Distortion + Noise (THD+N), Playback: -105 dB
  - PCM, Playback: Up to 192 kHz/24-bit
- 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 @ 60 Hz)
  - HD+ (900 x 1600 @ 90 Hz)

CPU

- Kryo 260, Octa-core CPU
- Up to 2 GHz
- 64-bit architecture

Visual Subsystem

- Adreno 610 GPU
- H.264 (AVC), H.265 (HEVC) VP8 and VP9 playback
- API Support: OpenGL® ES 3.2, OpenCL™ 2.0, Vulkan® 1.1

Security

- Biometric Authentication: Fingerprint, Iris, Voice, Face
- On-Device: Qualcomm® Mobile Security, Key Provisioning Security, Qualcomm® Processor Security, Qualcomm® Content Protection, Qualcomm® Trusted Execution Environment, Camera Security, Peripheral Security, Crypto Engine, Qualcomm® Malware Protection, Secure Boot, Secure Token

Charging

- Qualcomm® Quick Charge™ 3 technology

Location

- GPS, Glonass, BeiDou, Galileo, QZSS, and SBAS
- NavIC support
- Dual-Frequency GNSS (L1 + L5)
- Qualcomm® Sensor-Assisted Positioning

General Specifications

- Storage: eMMC, UFS 2.1
- Memory: 1x32 LP3 @ 933 MHz, 2x16 LP4x @ 1866 MHz
- Near Field Communications (NFC) support
- USB-C 3.1 Gen 1
- 11 nm Process Technology
- Part Number: SM6115