The Qualcomm® Snapdragon™ 750G 5G Mobile Platform brings unbridled energy to every experience. Truly global 5G, amazing on-device AI, and boosted performance combine for brilliant HDR gaming, all backed by sustainable power. Connect from virtually anywhere and play longer—this platform just keeps delivering.

**Truly global 5G**
Go head-to-head against gamers around the world with multi-gigabit 5G. Conquer near or far with support for both mmWave and Sub-6 GHz frequencies. Your arsenal includes lightning-fast uploads and downloads, seamless streaming, and widespread accessibility. Let the games—and the wins—begin.

- Qualcomm® Snapdragon™ X52 5G Modem-RF System supports uninterrupted gameplay
- Ultimate flexibility with support for SA and NSA modes, TDD, FDD, and Dynamic Spectrum Sharing (DSS), plus global roaming and global multi-SIM

**Brilliant HDR gaming**
Explore new worlds in over a billion shades of color with True HDR gaming. Get lost in immersive imagery with flawless graphics rendering, and stream cloud-based games at remarkably low latency via 5G. Plus, select Qualcomm® Snapdragon Elite Gaming™ features deliver stunning visuals and the latest upgrades to your competitive fingertips.

- Qualcomm® Adreno™ 619 GPU delivers up to 10% faster graphics rendering than the Snapdragon 730G
- Select Snapdragon Elite Gaming features power vivid gameplay, including Qualcomm® Game Color Plus, Adreno Updateable Drivers, and Adreno HDR Fast Blend

**Amazing on-device AI**
Our leading 5th gen Qualcomm® Artificial Intelligence (AI) Engine is fortified by leveled-up performance for intuitive, long-lasting competition. The Qualcomm® Hexagon™ Tensor Accelerator pushes blazing speeds, while new CPU architectures expand efficiencies.

- Over 4 TOPS performance for up to 20% improvement over the Snapdragon 730G
- Qualcomm® Sensing Hub provides always-on environment awareness, while AI-based echo cancellation and noise suppression allows fully focused gaming
- Instantly summon your voice assistant for immediate support, even amid furious combat

**Real-time connectivity**
Stay ahead of your foes with this Wi-Fi 6-ready mobile platform, featuring fast, robust connections and advanced security. Plus, dual-frequency GNSS provides 6x better GPS accuracy in dense urban areas, so you can locate your teammates while the competition is hot.

- Qualcomm® FastConnect™ 6200 Mobile Connectivity Subsystem with integrated 2x2 Wi-Fi 6-ready mobile connectivity and WPA3 security

**Sustainable power**
Let those battles rage—you have the power to vanquish your enemies again and again. The mighty 8nm processor is designed to handle intense, desktop-quality gaming without sacrificing your battery in the process, while Qualcomm® Quick Charge® 4+ Technology charges your device at ultra-high speeds for the next round.

- The Qualcomm® Kryo™ 570 CPU is up to 20% improved from the predecessor, enabling extended performance with efficiency
- Quick Charge 4+ yields an up to 50% charge in just 15 minutes*

* 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.
**SPECIFICATIONS & FEATURES**

**Qualcomm AI Engine**
- Adreno 619 GPU
- Kryo 570 CPU
- Hexagon 694 Processor
  - Hexagon Scalar Accelerator
  - Hexagon Vector eXtensions (HVX)
  - Hexagon Tensor Accelerator
- Qualcomm Sensing Hub
  - Ultra low power hub for audio, voice and sensors
  - Supports AI algorithms at low power
  - Support for fusing contextual data streams including sensors, audio and voice
  - Supports multiple voice assistants
  - Multi-mic far-field detection and echo cancellation

**5G Modem-RF System**
- Snapdragon X52 5G Modem-RF System: Modern 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: 400 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 3.7 Gbps (5G), 1.2 Gbps (LTE)
- Uplink: Up to 1.6 Gbps (5G), 210 Mbps (LTE)
- Multimode support: 5G NR, LTE including CBRS, WCDMA, HSPA, TD-SCDMA, CDMA 1x, EV-DO, GSM/EDGE

**Wi-Fi & Bluetooth**
- FastConnect 6200 Subsystem
  - Wi-Fi Standards: Wi-Fi 6 (802.11ax-ready), 802.11ac Wave 2, 802.11a/b/g, 802.11n
  - Wi-Fi Spectral Bands: 2.4 GHz, 5 GHz
  - Channel Utilization: 20/40/80 MHz
  - MIMO Configuration: 2x2 (2-stream) with MU-MIMO

**Camera**
- Qualcomm Spectra™ 355L Image Signal Processor
- Dual 14-bit ISPs
- Up to 192 MP snapshot capture (up to 48 MP snapshot capture with MFNR)
- Up to 32+16 MP dual camera @ 30 FPS with Zero Shutter Lag
- Rec. 2020 colorgamut/10-bits per color video capture
- Slow-mo video capture at 720p @ 240 FPS
- HEIF: HEIC photo capture, HEVC video capture
- Video Capture Formats: HDR10, HLG
- 4K HDR Video Capture with Portrait Mode (Bokeh)
- Multi-frame Noise Reduction (MFNR)

**Audio**
- Hexagon Voice Assistant Accelerator for hardware accelerated voice signal processing
- 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
- Qualcomm Aqstic™ smart speaker amplifier (up to WSAA8815)

**Display**
- Maximum On-Device Display Support:
  - FHD+ @ 120 Hz
- Maximum External Display Support:
  - QHD @ 60 Hz
- 10-bit color depth, Rec. 2020 color gamut
- HDR10+

**CPU**
- Kryo 570, Octa-core CPU
  - Up to 2.2 GHz
  - 64-bit Architecture

**Visual Subsystem**
- Adreno 619 GPU
- Vulkan® 1.1 API support
- 4K HDR10 PQ and HLG Video Playback (10 bit color depth, Rec. 2020 color gamut)
- H.266 (AVC), H.265 (HEVC) VP8 and VP9 playback
- Physically Based Rendering
- API Support: OpenGL® ES 3.2, OpenCL™ 2.0 FP, Vulkan 1.1, DirectX 12

**Security**
- Biometric Authentication: Fingerprint, Iris, Voice, Face

**Charging**
- Quick Charge 4+ technology

**Location**
- GPS, Glonass, BeiDou, Galileo, QZSS, NavIC, and SBAS
- Dual Frequency Support
- Low Power Geofencing and Tracking, Sensor-assisted Navigation
- Near Field Communications (NFC): Supported

**General Specifications**
- Memory Speed: up to 2133 MHz, 12 GB RAM
- Memory Type: 2 x 16-bit, LPDDR4x
- Near Field Communications (NFC) support
- DisplayPort over USB Type-C support
- 8 nm Process Technology
- Part Number: SM7225