Qualcomm® Snapdragon™ 855+ Mobile Platform is built for speed and cutting edge performance. Delivering faster graphics rendering and an uplift in CPU performance from the standard Snapdragon 855, you’ll see and feel a boost in every play. This ultra-powerful platform harnesses multi-gigabit 4G connectivity while unleashing cutting-edge 5G experiences to the world.

**Framerate-shattering Performance**

Snapdragon™ 855+ delivers incredible gains while managing your device’s power efficiently. Gaming takes on a new dimension with faster graphics rendering and an uplift in CPU performance from the Snapdragon 855. Amp up your game play with a platform engineered for heart-pumping pace.

- Qualcomm® Kryo™ 485 CPU Prime core clock speed at up to 2.96 GHz
- 15% faster graphics rendering compared to standard Snapdragon 855

**The Ultimate Gaming Advantage**

 Qualcomm® Snapdragon Elite Gaming™ puts victory at your fingertips. You’ll gain an exclusive, competitive edge with a suite of hardware and software features that are optimized for gaming. Play at your highest potential with enhancements that provide smoother play, near-instant response, incredible audio, and cinema-quality graphics.

- Vulkan 1.1 Graphics Driver runs off 20% less power than OpenGL ES
- Includes Game Jank Reducer, Game Fast Loader, Game Anti-Cheat Extensions and more

**Mind-Blowing 5G**

Step into the new era of mobile gaming. This ultra-powerful platform gives you the best of multi-gigabit 4G connectivity while providing access to extreme 5G experiences. Watch multiplayer interactions unfold at the speed of human reflex with the Snapdragon X50 5G modem.

- Multi-gigabit 5G, 4G LTE and Wi-Fi
- Support for mmWave and sub-6 GHz

**Ultra-Responsive Gaming with AI**

Outsmart the competition with our brilliant 4th generation on-device AI engine. Utilizing all cores, it packs 3 times the power of the Snapdragon 845. With sophisticated capabilities and ultra-responsive intelligence, you’ll get faster, smoother game play while managing your device’s power more efficiently.

- Qualcomm® Hexagon™ 690 Processor featuring 2x Vector accelerator increase in performance and a new Tensor accelerator
- Greater than 7 trillion operations per second (TOPS)

**Heightened Gaming Experiences**

With Snapdragon 855+, games are more realistic than ever before. Dive deep into fully immersive play sessions with enhanced features that speak to all of your senses. Qualcomm® aptX™ audio and Aqstic™ Audio Technologies are designed to deliver premium audio with real-time surround sound that syncs with the action on screen. And with True HDR Gaming, visuals will come to life before your eyes in vibrant color, putting every game into hyper-realistic perspective.

- First true HDR gaming on mobile, providing over 1 billion shades of color
- Qualcomm® aptX™ Adaptive and Qualcomm Aqstic™ deliver a smooth, crystal-clear audio experience
QUALCOMM® Artificial Intelligence Engine
- Qualcomm® Hexagon™ 690 Processor
- Qualcomm® Hexagon™ Vector Accelerator
- Qualcomm® Hexagon™ Tensor Accelerator
- Qualcomm® Hexagon™ Voice Assistant
- Qualcomm® All-Ways Aware™ Hub
- Qualcomm® Adreno™ 640 GPU
- Qualcomm® Kryo™ 485 CPU

Key Features: multi-gigabit speeds, wire-equivalent latency, always-on ambient Wi-Fi sensing

Camera
- Qualcomm® Spectra™ 380 Image Sensor Processor
- Dual 11-bit ISPs
- Hardware accelerator for computer vision (CV-ISP)
- Up to 22 MP dual camera
- Up to 48 MP single camera
- Rec. 2020 color gamut video capture
- Up to 10-bit color depth video capture
- Slow motion video capture at 720p HDR, 480fps
- HEIF photo capture, HEVC video capture
- Video Capture Formats: HDR10+, HDR10, HLG
- 4K HDR Video Capture with Portrait Mode (Bokeh)
- Multi-frame Noise Reduction (MFNR)
- Real-time object classification, segmentation and replacement

Audio
- Low-power Audio Subsystem with AI
- Hexagon Voice Assistant Accelerator for advanced voice use cases
- Qualcomm Aqstic™ Audio Technology
- Native DSD support, PCM up to 384 kHz/32-bit
- Supports two wake words simultaneously (Google Assistant, Amazon Alexa, Baidu, Cortana)
- Always-on echo cancellation and noise suppression; up to 4 mic far-field mic support for better voice recognition in tough conditions
- Qualcomm® aptX™ Adaptive audio technology
- aptX Adaptive adjusts performance for optimum quality, latency, and efficiency
- Qualcomm TrueWireless™ Stereo Plus technology

Display
- Maximum On-Device Display Support: Up to 4K HDR
- Maximum External Display Support: Up to two 4K HDR displays
- 10-bit color depth, Rec. 2020 color gamut

CPU
- 8x Qualcomm® Kryo™ 485
- Up to 2.96 GHz
- 64-bit Architecture
- 7nm Process Technology

Visual Subsystem
- Adreno 640 GPU
- Vulkan® 1.1 API support
- HDR gaming (10-bit color depth, Rec. 2020 color gamut)
- Physically Based Rendering
- API Support: OpenGL® ES 3.2, OpenCL™ 2.0, FP, Vulkan 1.1
- Hardware-accelerated H.265 and VP9 decoder
- HDR Playback Codec support for HDR10+, HDR10, HLG and Dolby Vision
- Volumetric VR video playback
- 8x 360 VR video playback

RF Front-End
- Comprehensive 5G/4G modem-to-antenna solution
- QTM052 5G mmWave antenna module
- Qualcomm Adaptive Antenna Tuning
- Qualcomm Envelope Tracking
- High-power transmit (HPUE)

Security
- Secure Processing Unit featuring mobile payments and Qualcomm® 3D Sonic Sensor
- Biometric Authentication: Fingerprint, Iris, Voice, Face

Memory
- Memory Speed: 2133 MHz
- Memory Type: 4x4-bit, LPDDR4x
- Memory Density: up to 16 GB

Connectivity Specifications
- Bluetooth Version: 5.0
- Bluetooth Speed: 2 Mbps
- Satellite Systems Support: Dual frequency GNSS, GPS, GLONASS, Beidou, Galileo, QZSS, SBAS
- Near Field Communications (NFC): Supported
- USB Version 3.1, USB Type-C Support

Charging
- Qualcomm® Quick Charge™ 4+ technology

Part Number
- SM8150-AC