

One platform. Endless realities.

Intelligence built in

Powering the ultimate visual experience

Flexible by design

Breakthrough power efficiency

The Snapdragon® Reality Elite Platform redefines what's possible in immersive spatial computing, with stunning visual fidelity, deeply integrated AI, industry leading power efficiency, and a flexible architecture to enable multiple realities.

Delivering the ultimate visual experience

Snapdragon Reality Elite delivers next-generation graphics performance built on upgraded CPU and advanced GPU architecture, and hardened vision processing—enabling rendering so smooth and detail so rich, mixed reality becomes indistinguishable from real life.

- Up to 4.4K per-eye resolution at 90 FPS for uncompromising clarity.
- Ultra-low latency VST with over 10% improvement in photon-to-photon latency for seamless mixed reality.
- Enhanced color fidelity for visuals that are vivid, accurate, and deeply immersive.



UP TO

160%

higher NPU
performance

UP TO

60%

higher GPU
performance

UP TO

30%

higher CPU
performance

UP TO

20%

longer battery
life at the same
workload

All comparisons are to the previous generation, the Snapdragon XR2+ Gen 2 Platform.

Powering the next generation of XR

Snapdragon Reality Elite is the foundation for the future of spatial computing—powering devices that are lighter, smarter, and more immersive across entertainment, productivity, and beyond.

One platform. Multiple form factors. Infinite possibilities.

Designed for generative AI

Snapdragon Reality Elite puts the full power of generative AI in the headset directly—enabling spatial agents, real-time content generation, and environments that adapt to the user the moment they need it.

- 48 TOPS of AI performance for real-time, always-on intelligence.
- Unlocks entirely new Gen AI experiences, from photorealistic avatars to LLM agents and real-time VLM-based object generation that brings dynamic digital content into the user's world.

Optimized power. Longer presence.

Next-generation architecture delivers up to 20% longer battery life at the same workload—optimized across the CPU, GPU, and NPU—so users stay immersed longer without compromise.

- Up to 20% longer battery life at equivalent workloads.
- System-wide power optimization across CPU, GPU, and NPU.
- Up to 12°C cooler under load, enabling more comfortable, sustained use and sleeker, lighter XR device designs.

Built for every reality. Limitless by design.

From all-in-one headsets to tethered optical-see-through and video-see-through devices, Snapdragon Reality Elite gives OEMs the freedom to build thinner, lighter, and more immersive experiences.

- Support for all-in-one and tethered configurations.
- Native enablement of both optical-see-through and video-see-through device architectures.
- Support for simultaneous display, input, and charging across connected devices.





Specs and features

Artificial Intelligence

Qualcomm® Hexagon™ Processor

- Fused AI Accelerator Architecture
- Qualcomm® Hexagon™ Vector eXtensions
- Qualcomm® Hexagon™ Scalar Accelerator
- Qualcomm® Hexagon™ Matrix eXtensions

Qualcomm® Adreno™ GPU

Qualcomm® Kryo™ CPU

Display

On-device display support

Up to 4.4K x 4.4K per eye @ 90 Hz

4x DSI, 2x eDP, 1x DP1.4 over USB

CPU

Qualcomm Kryo CPU

4 + 2 performance cores, up to 2.9 GHz

Camera

Qualcomm Spectra™ Image Signal Processor

- Support for 12 concurrent cameras
- 2x IFE for 12 MP @ 90 FPS Bayer for video-see-through
- 10x IFE-Lite for 720P @ 120 FPS mono for perception
- Additional camera support through multi-drop or aggregation
- Inline spatial noise reduction for low-latency video-see-through

Computer Vision

Engine for Visual Analytics with dedicated computer vision hardware

General purpose warper, triangulation, inverse triangulation, optical flow, SLAM, and 3DR

Video

8K60 decode, 8K30 encode, low-latency slice-based decoding

AVC, HEVC, VP9, and AV1 decode

Audio

Qualcomm® Hexagon™ DSP, embedded neural processing unit

Qualcomm® Sensor Hub, Voice UI, spatial audio / recording

Visual Subsystem

Adreno GPU

Up to 11% higher GPU frequency max

12 MB high-performance memory

Wi-Fi and Bluetooth®

Qualcomm® FastConnect™ 7800 Mobile Connectivity System

- Wi-Fi Generation: Wi-Fi 7
- Peak speed: 5.8 Gbps
- Wi-Fi Security: WPA3-Enterprise, WPA3-Enhanced Open, WPA3 Easy Connect, WPA3-Personal
- High-Band Simultaneous Multi-Link

Integrated Bluetooth

- Bluetooth 5.4
- Dual antenna Bluetooth

Security

Secure Boot, Secure Debug, Trust Zone, Hardware Root of Trust, Full DDR Encryption

Secure Processor, Trusted VM

Memory

4x16 LP-DDR5 memory, up to 4.2 GHz

8 MB system cache (LLC)

General Specifications

Storage: UFS 4.0, SD 3.0 / SDExpress 8.0

Peripherals: 2x USB3.1, 3x PCIe

All comparisons are to the previous generation, the Snapdragon XR2+ Gen 2 Platform.

Results will vary, depending on OEM implementation and other factors. Battery life varies significantly based on device, setting, usage, and other factors. Certain optional features available subject to carrier and OEM selection for an additional fee.

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