Snapdragon

Unlock endless potential with Snapdragon® X Elite, redefining possible with incredible performance, groundbreaking on-device AI, and long battery life. Our intelligent and power-efficient processor powers you into a future where the extraordinary becomes the everyday.

A laptop that feels familiar from day one, with Gemini Intelligence, Google Play apps, and all day battery life to keep you in your flow.

Battery life tested by HP using continuous H.264/VP9 1080p video playback at 30 fps and 142 nits brightness. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage.
Battery life varies significantly with device settings, usage, and other factors.
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FEATURES

Incredible CPU with high performance and remarkable power efficiency

Delivers efficient performance and all day battery life

Breakthrough Qualcomm® AI Engine, with up to 45 TOPS AI performance

Seamless processing across CPU, GPU, NPU, and Micro NPU
- Qualcomm Oryon CPU
- Adreno GPU
- Hexagon NPU
- Qualcomm Sensing Hub

On-device AI for transformative intelligent experiences, including support for Generative and Agentic AI.

Premium integrated GPU delivers stunning graphics performance

Lightning-fast downloading, streaming, and syncing of files with Wi-Fi 7 connectivity, including HBS Multi-Link for minimized latency and jitter-free entertainment

Support for AV1 decode for up to 4K HDR video streaming

Immersive, lossless audio for high-fidelity music and entertainment with your wireless headphones with Snapdragon Sound™ Technology Suite

Support for up to three external 4K monitors running at 60Hz, delivering snappy and smooth display experiences

LPDDR5x memory with 135 GB/s bandwidth for fast AI experiences and efficient multitasking

Advanced MIPI camera support for high-quality imaging and intelligent features, such as auto-framing, background blur, and facial authentication at low power consumption

SPECIFICATIONS

CPU

Qualcomm Oryon™ CPU
- 64-bit architecture
- 12 cores, up to 4.0 GHz
- Total Cache: 48 MB

Max Multithread Frequency
X1E-80-100: 3.8 GHz

GPU

Qualcomm® Adreno™ GPU
- X1E-80-100: Up to 3.8 TFLOPs

API Support: DX12

NPU

Qualcomm® Hexagon™ NPU

TOPS: Up to 45 TOPS

Micro NPU: Dual Micro NPU on the Qualcomm® Sensing Hub

Memory

Memory Type: LPDDR5x

Transfer Rate: 8448 MT/s

Capacity: Up to 64 GB

Bandwidth: 135 GB/s

Bit Width: 16-bit

Number of Channels: 8

Storage

SD: SD v3.0

SSD/NVMe Interface: NVMe SSD over PCIe Gen 4

UFS: UFS 4.0

Process

Process Node: 4nm

Display

Display Processing Unit (DPU) Name: Adreno DPU

Max. On-Device Display Resolution: eDP v1.4b, up to 4K 120 HDR10

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VPU

Video Processing Unit (VPU) Name: Adreno VPU

Decode: 4K120 10-bit decode – H.264, HEVC (H.265), VP9, AV1

Concurrency: 4K60 decode – H.264, HEVC (H.265), VP9

Camera

Image Signal Processor Name:
Qualcomm Spectra™ ISP
- Dual 18-bit ISPs
- Always-Sensing ISP

Dual Camera: 2x 36 MP

Single Camera: Up to 64 MP

Video Capture: 4K HDR

General Audio

Audio Technology: Qualcomm Aqstic™ Audio technology, Qualcomm® aptX™ Audio

Wi-Fi, Bluetooth®

Wi-Fi/Bluetooth System: Qualcomm® FastConnect™ 7800 Mobile Connectivity System

Generations: Wi-Fi 7

Standards: 802.11be, 802.11ax, 802.11ac, 802.11n, 802.11g, 802.11b, 802.11a

Spectral Bands: 6 GHz, 5 GHz, 2.4 GHz

Spatial Streams: Up to 2

Peak QAM: 4K QAM

Features: Wi-Fi QoS Management, Wi-Fi Optimized Connectivity, OFDMA (UL/DL), Miracast, Target Wake Time, MU-MIMO (UL/ DL), Multi-Link Operation (MLO), High Band Simultaneous (HBS), Dual Band Simultaneous (DBS)

Bluetooth
- Specification Version: Bluetooth 5.4
- Bluetooth Connection Technology: Bluetooth LE

M.2. Interface: WiFi M.2. card over PCIe Gen 3

USB

USB Specification Version: USB3

Interface Type: 3x USB-C
- 3x USB 3.2 Gen 2, 1x eUSB2

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