

STEP UP TO NEXT-LEVEL PERFORMANCE

Snapdragon® X



Transform your PC experience with the processor tailored for today's dynamic on-the-go lifestyles—on a budget. Delivering incredible performance and all-day battery life* with a responsive and efficient CPU, integrated GPU, and groundbreaking NPU. It all adds up to a quantum leap forward in computing, with built-in AI to help you achieve more and ease of use to simplify tasks with ease. Get the most out of your Copilot+ PC wherever your day takes you.



PERFORMANCE ON THE GO WITH LONG BATTERY LIFE

Step up to new levels of productivity on the move with the essential performance and energy efficiency of a Copilot+ PC powered by a Snapdragon X processor. Accomplish more from anywhere with battery life that can go for multiple days on a single charge.* Quickly create, connect, and share professional documents on the go. And keep up with your tasks wherever the demands of your busy schedule take you.

BUILT FOR AI

Experience the advantages of intelligence built right into your laptop. Gain an edge with built-in, on-device AI and benefit from the enhanced features of a leading on-device NPU. With the best integrated performance in its class, you get 45 trillion operations per second (TOPS). Delivering personalized capabilities like never before with real-time intelligence assistance that helps transform the way you work. And you'll look and sound your best with an advanced AI camera and audio capabilities. All smartly built into your PC.

SMARTER USER EXPERIENCES

Move freely and stay in sync with a smarter, connected PC.

Fuel your flow with the latest cutting-edge features that keep you sharp, secure, and connected. Including lightning-fast 5G and Wi-Fi 7 speeds delivering up to 10 Gbps downloads and jitter-free connectivity. Delivering seamless immersive experiences with crystal-clear video, studio-quality spatial and lossless audio, and streaming nearly anywhere. And with enhanced privacy features and intelligent security, you get peace of mind from chip to cloud. Wherever your day takes you, arrive ready to tackle whatever comes your way.

Snapdragon® X Platform Overview table

		Qualcomm® Oryon™ CPU			Qualcomm® Adreno™ GPU			Qualcomm® Hexagon™ NPU	Memory	
Platform	Part Number	Cores	Total Cache	Max Multi-core Frequency	Clock Speed	Part Number	TFLOPS	NPU TOPS	Memory Type	Bandwidth
Snapdragon X	X1-26-100	8	30 MB	3.0 GHz ¹	Up to 1.25 GHz	X1-45	1.7	45	LPDDR5x	135 GB/s
Snapdragon X	X1-26-101	8	30 MB	3.0 GHz ¹	Up to 0.63 GHz	X1-85	1.7	45	LPDDR5x	135 GB/s

1. Single-Core speeds up to 2.976 GHz / Multi-Core speeds up to 2.956

FEATURES

8-core CPU delivers responsive performance and power efficiency

Snapdragon™ X Series power Copilot+ PCs for the fastest, most intelligent Windows devices ever built

Delivers exceptional energy savings and up to multiple days of battery life¹

Industry-leading NPU, with up to 45 TOPS AI performance

Integrated GPU delivers responsive graphics performance

Lightning-fast downloading, streaming, and syncing of files with 5G and Wi-Fi 7 connectivity, including HBS Multi-Link for minimized latency and jitter-free entertainment

Robust security for enhanced protection from chip to cloud

Support for AV1 encode and 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 UHD monitors running at 60 Hz, delivering snappier and smoother display experiences

LPDDR5x memory with 135 GB/s bandwidth for faster 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 lower power consumption

SPECIFICATIONS

CPU

Qualcomm® Oryon™ CPU

- 64-bit architecture
- 8 cores, up to 3.0 GHz (2.976)
- Total Cache: 30 MB

GPU

Qualcomm® Adreno™ GPU

- Up to 1.7 TFLOPS ISP

X1-26-100

GPU Part Number: X1-45

Clock Speed: Up to 1.25 GHz

X1-26-101

GPU Part Number: X1-85

Clock Speed: Up to 0.63 GHz

NPU

Qualcomm® Hexagon™ NPU

TOPS: 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

Process

Process Node: 4nm

Display

Display Processing Unit (DPU) Name: Adreno™ DPU

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

Max. External Display Resolution: DP v1.4 - 3 displays, up to UHD60 Hz HDR10, 2 displays up to 5K60 or UHD120

VPU

Video Processing Unit (VPU) Name: Adreno VPU

Encode

- 4K UHD 30 fps 8-bit recording - H.264, HEVC (H.265), AV1

Decode:

- 4K 30 fps 10-bit playback - HEVC (H.265), VP9, AV1
- 4K 60 fps 8-bit playback - H.264, HEVC (H.265)

Concurrency:

- 4K 30 fps 8-bit decode + 1080p 30 fps encode
- 1080p 60 fps 10-bit decode + 1080p 30 fps encode

Camera

Image Signal Processor Name: Qualcomm Spectra™ ISP

Single Camera: Up to 36 MP

Video Capture: 4K HDR video capture

General Audio

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

Cellular Modem-RF

Modem Name: Snapdragon X65 5G Modem-RF System

Peak Download Speed: 10 Gbps

Peak Upload Speed: 3.5 Gbps

Cellular Modem-RF Specs: 1,000 MHz bandwidth (mmWave), 300 MHz bandwidth (sub-6 GHz) |

Performance Enhancement Technologies:

Qualcomm® Smart Transmit™ technology, Qualcomm® Wideband Envelope Tracking, Qualcomm® AI-Enhanced Signal Boost adaptive antenna tuning, Qualcomm® 5G PowerSave

Cellular Technology: 5G NR, Dynamic Spectrum Sharing (DSS), mmWave, sub-6 GHz, HSPA, WCDMA, LTE support for CBRS, CDMA 1x, EV-DO, GSM/EDGE

Wi-Fi/Bluetooth®

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

Generations: Wi-Fi 7, Wi-Fi 6E

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 4

Peak QAM: Up to 4K QAM

Features: Passpoint, 8x8 Sounding, TDLS, Wi-Fi QoS Management, Wi-Fi Optimized Connectivity, Wi-Fi Location, OFDMA (UL/DL), Miracast, Target Wake Time, Voice-Enterprise, MU-MIMO (UL/DL), Multi-Link Operation (MLO), High Band Simultaneous (HBS)

Bluetooth

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

USB

USB Specification Version: USB 4.0

Interface Type: 3 x USB4 (40Gbps),

2 x USB3.2 Gen2x1, 1x eUSB2



1. Battery life varies significantly based on device, settings, usage, and other factors.

2. Device features and functionality may vary based on OEM design.

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