Snapdragon X2 Plus

A legendary leap in performance

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Redefine what's possible with incredible performance, multi-day battery life, and revolutionary AI capabilities.

Comparison table

| Platform | Part Number | Qualcomm Oryon™ CPU | | | Qualcomm® Adreno™ GPU | | Qualcomm® Hexagon™ NPU | Memory | |
		Cores	Total Cache	Max Multithread Frequency	Part Number	Frequency	NPU TOPS	Memory Type	Transfer Rate
Snapdragon® X2 Plus 10-core	X2P-64-100	10	34 MB	4.0 GHz	X2-45	1.7 GHz	80	LPDDR5x	9523 MT/s
Snapdragon® X2 Plus 6-core	X2P-42-100	6	22 MB	4.0 GHz	X2-45	0.9 GHz	80	LPDDR5x	9523 MT/s

Performance

Break free from limits and keep your ideas moving with Snapdragon X2 Plus. Designed to deliver lightning-fast performance and fluid multitasking, so you can shift from data-intensive analysis to creative design or video calls without a hitch. Powered by the third generation Qualcomm Oryon CPU and Qualcomm Hexagon NPU with 80 TOPS you'll move through AI-enhanced experiences and productivity apps with ease. The advanced integrated Adreno GPU brings immersive experiences to life with richer visuals. And with intelligent power efficiency, you can stay unplugged longer – with no interruptions in performance. Ultra-portable, ultra-capable, Snapdragon X2 Plus is built for the way you work, create, and connect.

- Third generation Qualcomm Oryon CPU up to 10 cores
- Sliced – based GPU architecture for lifelike graphics
- Fastest NPU in a laptop with 80 TOPS

Battery Life

Snapdragon® X2 Plus is built for movement – across time zones, workloads, and those moments when creativity sparks. With multi-day battery life that stays cool, it's engineered to keep pace with your ambition. Whether you're deep in design work, presenting on the go, or shifting from brainstorm to build more, this platform delivers power-efficient performance in sleek, ultra-portable devices that keep you in your flow. Every milliwatt counts, thanks to intelligent power management that distributes power where it's needed most – so responsiveness stays consistent and your ideas never slow down.

- Incredibly energy efficient for multi-day battery life
- Truly mobile PC, with no drop in performance when on battery

AI

Snapdragon® X2 Plus supercharges all your AI experiences with an integrated Qualcomm Hexagon™ NPU that delivers 80 TOPS of AI performance. Power through every workflow with lightning-fast AI acceleration for tasks like photo and video editing, multimodal content generation, and autonomous AI agents. Built for effortless multitasking, AI works quietly in the background to keep you focused and in flow. This is the power of true on-device AI—and Snapdragon X2 Plus puts it in your hands.

- 80 TOPS NPU engineered for next-gen agentic AI and seamless multitasking
- 50+ AI experiences running on device

Security

The Snapdragon® X2 Plus platform helps protect data from the moment you power on your PC through automatic presence detection, biometric authentication, and chip-to-cloud protection with the Qualcomm® SPU and Microsoft Pluton. Optional Snapdragon Guardian™ Technology combines enterprise-grade protection with user-friendly simplicity. This dedicated hardware subsystem fuses hardware, firmware, and the cloud to deliver true out-of-band PC management—enabling updates, maintenance, and security from virtually anywhere.

- Automatic presence detection & biometric authentication
- State-of-the-art security from chip to cloud powered by the Qualcomm SPU with Microsoft Pluton
- Out of Band (OOB) Remote Manageability

Connectivity

Snapdragon® X2 Plus transforms your device into a finely tuned hub for creation and connection. With optional integrated 5G, Wi-Fi 7, and Bluetooth®, it delivers high-speed access that feels effortless—whether you're collaborating across continents, syncing across the cloud, or streaming lag-free entertainment. Intelligent camera and audio features elevate every interaction, while AI-optimized security safeguards your data without disruptions, keeping you focused on the work that matters. From spontaneous brainstorms to high-stakes presentations, Snapdragon® X2 Plus merges ultrafast performance with limitless mobility.

- Lightning-fast 5G for blazing speeds
- Wi-Fi 7 with High Band Simultaneous
- Dual Bluetooth with Snapdragon Sound support

SPECS & FEATURES

	Brand	Snapdragon X2 Plus 10-core	Snapdragon X2 Plus 6-core
Name	Part Number	X2P-64-100	X2P-42-100
3rd Gen Qualcomm Oryon™ CPU	Architecture	ARM64- Compatible	ARM64- Compatible
	Total Cores	10	6
	Prime Cores	6	6
	Multi-Core Max Frequency	4.0 GHz	4.0 GHz
	Boost Frequency	4.04 (Single-Core)	4.04 (Single-Core)
	Performance cores	4	0
	Multi-Core Max Frequency	3.4 GHz	
	Total Cache	34 MB	22 MB
Qualcomm® Adreno™ GPU	Part Number	X2-45	X2-45
	Frequency	1.7 GHz	0.9 GHz
	API Support	DirectX 12.2 Ultimate, Vulkan 1.4, OpenCL 3.0	DirectX 12.2 Ultimate, Vulkan 1.4, OpenCL 3.0
Qualcomm® Hexagon™ NPU	TOPS (INT8)	80	80
	Micro NPU	Dual Micro NPU on the Qualcomm® Sensing Hub	Dual Micro NPU on the Qualcomm® Sensing Hub
Memory	Memory Type	LPDDR5x	LPDDR5x
	Max Capacity	128 GB	128 GB
	Transfer Rate	9523 MT/s	9523 MT/s
	Bus Width	128-bit	128-bit
	Bandwidth	152 GB/s	152 GB/s
Process	Process Node	3NM	
Storage	NVMe	Supported via Dual PCIe 5.0	
	UFS Version	4.0	
	SD Standard	SDUC with SD Express, SDXC with UHS-I	
	Display Processing Unit Name	Qualcomm® Adreno™ DPU	
	On-Device Display Standard	Embedded DisplayPort (eDP) 1.5	
	Max. On-Device Display Resolution	4K at 144 Hz	
	External Display Standard	Display Port 2.1	
	Max. External Display Resolution	3 displays at up to 4K at 144 Hz or 5K at 60Hz	
Qualcomm® Adreno™ VPU	Encode	HEVC, AVC: 8K UHD at 30 FPS AV1: 8K UHD at 15 FPS, UHD at 60 FPS	
	Decode	AV1, HEVC, AVC: 8K at 60 FPS	
	Concurrency	UHD at 60 FPS Encode + 8K at 30 FPS Decode	
Camera	Image Signal Processor Name	Qualcomm Spectra™ ISP	
	ISP Bit Width	Dual 18-bit ISPs	
	Always Sensing	Supported	
	Dual Camera	Up to 36 MP	
	Single Camera	Up to 36 MP	
	Video Capture	Up to 4K at 30 FPS	
Audio	Audio Technology	Qualcomm Aqstic™ Audio Codec, Qualcomm® aptX™ Audio Technology	
Manageability	Out-of-Band Management via Cellular & Wi-Fi	Snapdragon® Guardian Technology	
Cellular Modem-RF	Latest Supported System	Snapdragon® X75 5G Modem-RF System	
	Peak Download Speed	Up to 10 Gbps	
	Peak Upload Speed	Up to 3.5 Gbps	
	Bandwidth	Up to 1000 MHz (5G)	
	Interface	M.2 PCIe 3.0	
Wi-Fi/Bluetooth	Latest Supported System	Qualcomm® FastConnect™ 7800 System	
	Generations	Up to Wi-Fi 7 (802.11be), 802.11ax, 802.11be, 802.11ac, 802.11n, 802.11g, 802.11b, 802.11a	
	Bands	6 GHz, 5 GHz, 2.4 GHz	
	Bluetooth Specification Version	Bluetooth 5.4	
	Bluetooth Connection Technology	Bluetooth LE	
	Interface	M.2 PCIe 3.0	
USB	USB Specification Version	USB4 (40 Gbps)	
	Interface Type	3x USB-C	
PCIe	PCIe Gen 5.0 Lanes	8	
	PCIe Gen 4.0 Lanes	4	