SNAPDRAGON® X2 ELITE

A legendary leap in performance





Unleash your masterpiece with ultra-premium performance, multi-day battery life, and blazing Al processing power.

Comparison table

Snapdragon* X2 Elite			Qualcomm Oryon* CPU						Qualcomm* Adreno		Qualcomm [®] Hexagon [®]	Memory	
Platforms			Prime C	ores		Perform	nance Cores		GPU	,	NPU		
Platform	Part Number	Total Cores	Core Count	Max Multi- Core Frequency	Boost Frequency	Core Count	Max Multi-Core Frequency	Total Cache	Part Number	Max Frequency	TOPS	Туре	Bandwidth
Snapdragon® X2 Elite Extreme	X2E-96-100	18	12	4.4 GHz	5.0 GHz Single-Core / 5.0 GHz Dual-Core	6	3.6 GHz	53 MB	X2-90	1.85 GHz	80	LPDDR5x	228 GB/s
Snapdragon X2 Elite	X2E-88-100	18	12	4.0 GHz	4.7 GHz Single-Core/ 4.7 GHz Dual-Core	6	3.4 GHz	53 MB	X2-90	1.70 GHz	80	LPDDR5x	152 GB/s
Snapdragon* X2 Elite	X2E-80-100	12	6	4.0 GHz	4.7 GHz Single-Core/ 4.4 GHz Dual-Core	6	3.4 GHz	34 MB	X2-85	1.70 GHz	80	LPDDR5x	152 GB/s



Snapdragon X2 Elite sets a new bar for groundbreaking performance, expanded memory cache, and graphics performance per watt for maximum productivity and speed.

- Best-in-class Qualcomm Oryon™ CPU up to 18 cores for the fastest and most power-efficient performance at up to 5.0 GHz frequency

- Up to 1.85 GHz GPU
- Multitasking across up to three 5K 60Hz monitors



Battery Life

Experience multi-day battery life without compromising performance. Play and work longer with leading power efficency.

- · Multi-day battery life
- Truly mobile PC with sustained performance when on battery
- · Optimized power consumption spreads workloads across the CPU, GPU, and NPU



Snapdragon X2 Elite powers the most intelligent PCs with the industry-leading Qualcomm Hexagon™ NPU. Built to run multiple intelligent experience concurrently with faster responsiveness and reduced latency.

- · Featuring up to 80 TOPS of AI processing
- · Al acceleration for media editing, multimodal content generation, and agentic Al
- 64-bit NPU architecture with increased memory access to the latest AI models
- · Powers Copilot+ PCs for the fastest, most intelligent Windows PCs



Security

Protect your data from the moment you turn on your device. Advanced security features ensure a secure and reliable computing experience wherever you go.

- State-of-the-art security from chip to cloud powered by the Qualcomm SPU that supports Microsoft Pluton
- · Snapdragon® Guardian Technology for remote manageability
- · Automatic presence detection & biometric authentication



Connectivity

Snapdragon X2 Elite delivers fast, intelligent connections with the latest in 5G, Wi-Fi 7, and Bluetooth® technologies.

- Lightning-fast 5G for up to 10 Gbps peak speeds
- · Wi-Fi 7 with High Band Simultaneous for peak speeds of 5.8 Gbps
- · Dual Bluetooth with Snapdragon Sound support

SPECS & FEATURES



		Snapdragon® X2	Snapdragon® X2	Snapdragon® X2				
Name	Brand	Elite Extreme	Elite	Elite				
	Part Number	X2E-96-100	X2E-88-100	X2E-80-100				
	Architecture Total Cores	ARM64-Compatible 18	ARM64-Compatible	ARM64-Compatible				
	Prime Cores	12	12	6				
	Multi-Core Max Frequency	4.4 GHz	4.0 GHz	4.0 GHz				
3rd Gen Qualcomm	Boost Frequency	5.0 GHz Single-Core / 5.0 GHz Dual-Core	4.7 GHz Single-Core / 4.7 GHz Dual-Core	4.7 GHz Single-Core / 4.4 GHz Dual-Core				
Oryon" CPU	Performance	5.0 GHz Dual-Core	4.7 GHZ Dual-Core	4.4 GHZ Dual-Core				
	Cores Multi-Core Max	0	0	0				
	Frequency	3.6 GHz	3.4 GHz	3.4 GHz				
	Total Cache GPU Part	53 MB	53 MB	34 MB				
	Numbers	X2-90	X2-90	X2-85				
Qualcomm [®] Adreno [™] GPU	Max Frequency	1.85 GHz DirectX 12.2	1.70 GHz DirectX 12.2	1.70 GHz DirectX 12.2				
	API Support	Ultimate, Vulkan 1.4, OpenCL 3.0	Ultimate, Vulkan 1.4, OpenCL 3.0	Ultimate, Vulkan 1.4, OpenCL 3.0				
	TOPS (INT8)	80	80	80				
Qualcomm° Hexagon™ NPU	Minus NIDI I	Dual Micro NPU on the Qualcomm°	Dual Micro NPU on the Qualcomm*	Dual Micro NPU				
	Micro NPU	Sensing Hub	Sensing Hub	on the Qualcomm® Sensing Hub				
	Memory Type	LPDDR5x	LPDDR5x	LPDDR5x 128 GB				
	Max Capacity Configured	128+ GB	128 GB					
Memory	Capacity	48 GB	Device-Specific	Device-Specific				
	Transfer Rate	9523 MT/s	9523 MT/s	9523 MT/s				
	Bus Width Bandwidth	192-bit 228 GB/s	128-bit 152 GB/s	128-bit 152 GB/s				
	Bariawiatii	220 GD/S 152 GB/S 152 GB/S						
Process	Process Node	3nm						
	NVMe	Sı	upported via Dual PCIe !	5.0				
Storage	UFS Version	4.0						
Storego	CD Ct I I	SDUC with SD Express						
	SD Standard		SDXC with UHS-I					
	Display Processing Unit Name	C	Qualcomm® Adreno™ DP	U				
	On-Device							
	Display Standard	Embedded DisplayPort (eDP) 1.5, Digital Serial Interface (D:						
Display	Max. On-Device							
Display	Display Resolution	4K at 144 Hz						
	External Display	Display Port 1.4						
	Standard Max. External	Display Fort 1.4						
	Display Resolution	3 displays	3 displays at up to 4K at 144 Hz or 5K at 60 Hz					
	Resolution	HEVC, AVC: Dual 8K	HEVC, AVC: Dual	HEVC, AVC: 8K UHD				
	Encode	UHD at 30 FPS AV1: 8K UHD at 15	8K UHD at 30 FPS AV1: 8K UHD at 15	at 30 FPS AV1: 8K UHD at 15				
Qualcomm*		FPS, UHD at 60 FPS AV1, HEVC, AVC:	FPS, UHD at 60 FPS AV1, HEVC, AVC:	FPS, UHD at 60 FPS AV1, HEVC, AVC: 8K				
Adreno [™] VPU	Decode	Dual 8K at 60 FPS	Dual 8K at 60 FPS	at 60 FPS				
	Concurrency	8K UHD at 30 FPS Encode + 8K at 60	8K UHD at 30 FPS Encode + 8K at 60	UHD at 60 FPS Encode + 8K at 30				
	Image Signal	FPS Decode FPS Decode FPS Decode Qualcomm Spectra* ISP						
	Processor Name ISP Bit Width	Qualcomm Spectra* ISP						
Camera	Always Sensing	Dual 18-bit ISPs Supported						
Samera	Dual Camera	Up to 36 MP						
	Single Camera	Up to 36 MP Up to 4K, 30 FPS						
	Video Capture							
Audio	Audio Technology	Qualcomm A	ılcomm° aptX™					
	Out-of-Band							
Manageability	Management via Cellular & Wi-Fi	Snapdragon* Guardian Technology						
	Latest							
	Supported System	Snapdragon" X75 5G Modem-RF System						
Cellular	Peak Download Speed	Up to 10 Gbps						
Modern-RF	Peak Upload	Up to 3.5 Gbps						
	Speed Bandwidth	Up to 3.5 Gbps Up to 1000 MHz (5G)						
	Interface	Up to 1000 MHz (SG) M.2 PCle 3.0						
	Latest Supported	Qualcomm® FastConnect™ 7800 System						
	System							
		Up to Wi-Fi 7 (802.11be), 802.11ax,						
	Generations	802.11be, 802.11ac, 802.11n, 802.11g,						
Wi-Fi/	Bands	802.11b, 802.11a 6 GHz, 5 GHz, 2.4 GHz						
Bluetooth	Bluetooth							
	Specification Version	Bluetooth 5.4						
	Bluetooth Connection	Bluetooth LE						
	Technology							
	Interface USB	M.2 PCle 3.0						
USB	Specification Version	USB4 (40 Gbps)						
	Interface Type		3x USB-C					
	PCle Gen 5.0 Lanes	12	12	8				
PCle	PCIe Gen 4.0	4	4	4				
	Lanes		l .					