

Samsung NP944XHA-KG2DE laptop Copilot+ PC Intel Core Ultra 7 258V 35.6 cm (14") Touchscreen WQXGA+ 32 GB LPDDR5x-SDRAM 512 GB SSD Wi-Fi 7 (802.11be) Windows 11 Pro Grey

Brand : Samsung
Product code: NP944XHA-KG2DE
Product name : NP944XHA-KG2DE

- Windows 11 Pro
- Intel Core Ultra 7 258V (12MB Cache)
- 35.6 cm (14") WQXGA+ 2880 x 1800 AMOLED Touch
- 32GB LPDDR5x-SDRAM & 512GB SSD
Intel Core Ultra 7 258V (12MB Cache), 32GB LPDDR5x-SDRAM, 512GB SSD, 35.6 cm (14") WQXGA+ 2880 x 1800 AMOLED Touch, Intel Arc Graphics 140V, Webcam, Windows 11 Pro
Samsung NP944XHA-KG2DE. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 7, Processor model: 258V. Display diagonal: 35.6 cm (14"), HD type: WQXGA+, Display resolution: 2880 x 1800 pixels, Touchscreen. Internal memory: 32 GB, Internal memory type: LPDDR5x-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel Arc Graphics 140V. Operating system installed: Windows 11 Pro. Product colour: Grey



Design		Graphics	
Product type *	Laptop	Discrete graphics card model *	Not available
Product colour *	Grey	On-board graphics card *	✓
Form factor *	Clamshell	On-board GPU manufacturer	Intel
Display		Discrete graphics card *	✗
Display diagonal *	35.6 cm (14")	On-board graphics card family	Intel Arc Graphics
Display resolution *	2880 x 1800 pixels	On-board graphics card model *	Intel Arc Graphics 140V
Touchscreen *	✓	On-board graphics card memory	8 GB
HD type	WQXGA+	Audio	
Panel type	AMOLED	Audio system	Dolby Atmos
Display technology marketing name	Dynamic AMOLED 2X	Number of built-in speakers	4
Native aspect ratio	16:10	Built-in microphone	✓
Anti-reflective coating	✓	Number of microphones	2
Display brightness	400 cd/m²	Camera	
Maximum display brightness (HDR)	500 cd/m²	Front camera	✓
RGB colour space	DCI-P3	Front camera resolution (numeric)	2 MP
Maximum refresh rate	120 Hz	Front camera resolution	1920 x 1080 pixels
High Dynamic Range (HDR) supported	✓	Front camera HD type	Full HD
High Dynamic Range (HDR) technology	High Dynamic Range (HDR) 500	Network	
Processor		Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Processor manufacturer *	Intel	Mobile network connection *	✗
Processor family *	Intel Core Ultra 7	Antenna type	2x2
Processor generation	Intel Core Ultra (Series 2)	Bluetooth	✓
Processor model *	258V	Bluetooth version	5.4
Processor cores	8	Ports & interfaces	
Processor threads	8	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	1
Processor boost frequency	4.8 GHz	HDMI ports quantity *	1
Performance cores	4	HDMI version	2.1
Low Power Efficient-cores	4	Thunderbolt 4 ports quantity	2
Performance-core Max Turbo Frequency	4.8 GHz	Intel® Thunderbolt 4	✓
Low Power Efficient-core Max Turbo Frequency	3.7 GHz	Combo headphone/mic port	✓

Processor		Performance	
Performance-core base frequency	2.2 GHz	Ambient light sensor	✓
Low Power Efficient-core Base Frequency	2200 MHz	Repairability index	8.7
Processor cache	12 MB	Keyboard	
Processor cache type	Smart Cache	Pointing device	Clickpad
Processor base power	17 W	Numeric keypad *	✗
Maximum turbo power	37 W	Keyboard backlit	✓
Neural processor unit (NPU)		Software	
Copilot+ PC	✓	Pre-installed software	Galaxy Book Experience, Multi Control, Second Screen, Samsung Notes, Samsung Gallery, Quick Share, Samsung Account, Samsung Settings, AI Select, SmartThings, Quick Search, Samsung Device Care, Screen Recorder, Live Wallpaper, Bixby, Samsung Find, Samsung Flow, Samsung Studio, Phone, Galaxy Book Smart Switch, Samsung Pass
Neural processor unit (NPU)	Intel AI Boost		
Sparsity support	✓		
Windows Studio effects support	✓		
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN		
Total processor performance up to	115 TOPs		
NPU performance up to	47 TOPs		
GPU performance up to	64 TOPs	Operating system installed *	Windows 11 Pro
Memory		Battery	
Internal memory *	32 GB	Battery capacity *	63.1 Wh
Internal memory type	LPDDR5x-SDRAM	Battery life (max)	21 h
Memory form factor	On-board	Power	
Storage		AC adapter power	65 W
Total storage capacity *	512 GB	AC adapter frequency	50 - 60 Hz
Storage media *	SSD	AC adapter input voltage	100 - 240 V
Total SSDs capacity	512 GB	USB Type-C charging port *	✓
Number of SSDs installed	1	Security	
SSD capacity	512 GB	Fingerprint reader	✓
NVMe	✓	Trusted Platform Module (TPM)	✓
Optical drive type *	✗	Operational conditions	
Card reader integrated	✓	Operating temperature (T-T)	10 - 35 °C
Compatible memory cards	MicroSD (TransFlash), MicroSDHC, MicroSDXC	Storage temperature (T-T)	-5 - 40 °C
		Operating relative humidity (H-H)	20 - 80%
		Storage relative humidity (H-H)	5 - 90%
		Weight & dimensions	
		Width	312.3 mm
	Depth	223.8 mm	
	Height	11.6 mm	
	Weight *	1.23 kg	
		Packaging content	
		AC adapter included *	✓
		Cables included	USB Type-C



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