

ASUS ROG Zephyrus Duo GX651AX-SR005X Intel Core Ultra 9 386H Hybrid (2-in-1) 40.6 cm (16") Touchscreen WQXGA+ 64 GB LPDDR5x-SDRAM 2 TB SSD NVIDIA GeForce RTX 5090 Wi-Fi 7 (802.11be) Windows 11 Pro Grey

Brand : ASUS

Product family: ROG

Product code: 90NR0NT2-M00080

Product name : GX651AX-SR005X

- Windows 11 Pro 64-bit
- Intel Core Ultra 9 386H (18MB Cache)
- 16" WQXGA+ 2880 x 1800 OLED Touch, NVIDIA GeForce RTX 5090 (24GB GDDR7)
- 64GB (8533MHz) LPDDR5x-SDRAM & 2000GB SSD

Intel Core Ultra 9 386H (18MB Cache), 64GB LPDDR5x-SDRAM, 2000GB SSD, 16" WQXGA+ 2880 x 1800 OLED Touch, Intel Graphics, NVIDIA GeForce RTX 5090 (24GB GDDR7), WLAN, Webcam, Windows 11 Pro 64-bit

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DUO IT ALL

Flagship power

Harness the raw power of up to an NVIDIA® GeForce RTX™ 5090 Laptop GPU with a max TGP of 150W. This flagship GPU offers the latest gaming and AI features, including DLSS 4, 4th Gen ray-tracing cores, and up to 1824 TOPS of NPU compute for local AI applications, no cloud connection required. With a max TGP of 150W, you can pump up resolution, texture, and fidelity in all of the latest games.



Design		Graphics	
Colour name	Stellar Grey	On-board graphics card *	✓
Product type *	Hybrid (2-in-1)	On-board GPU manufacturer	Intel
Product colour *	Grey	Discrete graphics card *	✓
Form factor *	Convertible (Detachable)	On-board graphics card family	Intel® Graphics
Market positioning	Gaming	On-board graphics card model *	Intel® Graphics
Introduction year	2026	Total Graphics Power (TGP)	150 W
Display		NVIDIA G-SYNC	✓
Display diagonal *	40.6 cm (16")	Audio	
Display resolution *	2880 x 1800 pixels	Audio system	Smart Amp
Touchscreen *	✓	Number of built-in speakers	6
HD type	WQXGA+	Built-in microphone	✓
Panel type	OLED	Camera	
Native aspect ratio	16:10	Front camera	✓
Anti-glare screen	✓	Front camera resolution	1920 x 1080 pixels
Maximum display brightness (HDR)	1100 cd/m²	Front camera HD type	Full HD
RGB colour space	DCI-P3	Infrared (IR) camera	✓
Colour gamut	100%	Network	
Display response rise/fall	0.2 ms	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Maximum refresh rate	120 Hz	Wi-Fi standards	Wi-Fi 7 (802.11be)
Contrast ratio (typical)	1000000:1	Mobile network connection *	✗
High Dynamic Range (HDR) supported	✓	Antenna type	2x2
Processor		Bluetooth	✓
Processor manufacturer *	Intel	Bluetooth version	6.0
Processor family *	Intel Core Ultra 9		
Processor generation	Intel® Core™ Ultra (Series 3)		
Processor model *	386H		

Processor		Ports & interfaces	
Processor cores	16	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Processor threads	16	HDMI ports quantity *	1
Processor boost frequency	4.9 GHz	HDMI version	2.1
Performance cores	4	Thunderbolt 4 ports quantity	2
Efficient cores	8	Intel® Thunderbolt 4	✓
Low Power Efficient-cores	4	Combo headphone/mic port	✓
Performance-core Max Turbo Frequency	4.9 GHz	USB Type-C DisplayPort Alternate Mode	✓
Efficient-core Max Turbo Frequency	3.9 GHz	Keyboard	
Low Power Efficient-core Max Turbo Frequency	3.5 GHz	Pointing device	Touchpad
Performance-core base frequency	2.1 GHz	Numeric keypad *	✗
Efficient-core base frequency	1.6 GHz	Keyboard backlit	✓
Low Power Efficient-core Base Frequency	1600 MHz	Keyboard backlit colour	RGB
Processor cache	18 MB	Keyboard backlit zone	1-zone RGB
Processor cache type	Smart Cache	Copilot key	✓
Processor base power	25 W	Software	
Maximum turbo power	80 W	Operating system architecture	64-bit
Neural processor unit (NPU)		Microsoft Copilot	✓
Neural processor unit (NPU)	Intel AI Boost	Trial software	1-month trial for new Microsoft 365 customers
Sparsity support	✓	Operating system installed *	Windows 11 Pro
Windows Studio effects support	✓	Bundled software	Xbox Game Pass for PC_3 months (*Terms and exclusions apply. Offer only available in eligible markets for Xbox Game Pass for PC. Eligible markets are determined at activation. Game catalog varies by region, device, and time.) Xbox Game Pass for PC_3 months (*Terms and exclusions apply. Offer only available in eligible markets for Xbox Game Pass for PC. Eligible markets are determined at activation. Game catalog varies by region, device, and time.)
NPU performance up to	50 TOPs		
Memory			
Internal memory *	64 GB		
Internal memory type	LPDDR5x-SDRAM		
Memory clock speed	8533 MHz		
Memory form factor	On-board		
Maximum internal memory *	64 GB		
Memory channels	Dual-channel		
Storage			
Total storage capacity *	2 TB		
Storage media *	SSD	Battery	
Total SSDs capacity	2 TB	Battery technology	Lithium-Ion (Li-Ion)
Number of SSDs installed	1	Number of battery cells	4
SSD capacity	2 TB	Battery capacity *	90 Wh
SSD interface	PCI Express 5.0	Power	
NVMe	✓	AC adapter power	250 W
SSD form factor	M.2	AC adapter frequency	50 - 60 Hz
Optical drive type *	✗	AC adapter input voltage	100 - 240 V
Card reader integrated	✓	AC adapter output current	12.5 A
Compatible memory cards	SD	AC adapter output voltage	20 V
Graphics		USB Type-C charging port *	✓
Discrete GPU manufacturer	NVIDIA	USB Power Delivery (USB PD)	✓
Discrete graphics card model *	NVIDIA GeForce RTX 5090	Security	
Discrete graphics card memory	24 GB	Face recognition	✓
Discrete graphics memory type	GDDR7	Windows Hello	✓
		Trusted Platform Module (TPM)	✓
		Password protection	✓
		Password protection type	BIOS, User
		Weight & dimensions	
		Width	355 mm
		Depth	247 mm
		Height (front)	1.99 cm
		Height (rear)	2.49 cm
		Weight *	2.82 kg

Packaging content

AC adapter included *	✓
Stylus pen	✓



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Catalog Object Cloud



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