



# ASUS ROG Zephyrus Duo 16 GX650PY-NM010W laptop AMD Ryzen™ 9 7945HX 40.6 cm (16") WQXGA 32 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 4090 Wi-Fi 6E (802.11ax) Windows 11 Home Black



**Brand :** ASUS

**Product family:** ROG

**Product code:** GX650PY-NM010W

**Product name :** GX650PY-NM010W

- Windows 11 Home 64-bit
  - AMD Ryzen 9 7945HX (80MB Cache, 2.5GHz)
  - 40.6 cm (16") WQXGA 2560 x 1600 IPS, NVIDIA GeForce RTX 4090 (16GB GDDR6)
  - 32GB (4800MHz) DDR5-SDRAM (2 x 16) & 2000GB SSD
- AMD Ryzen 9 7945HX (80MB Cache, 2.5GHz), 32GB DDR5-SDRAM, 2000GB SSD, 40.6 cm (16") WQXGA 2560 x 1600 IPS, AMD Radeon 610M, NVIDIA GeForce RTX 4090 (16GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home 64-bit
- ASUS ROG Zephyrus Duo 16 GX650PY-NM010W. Product type: Laptop, Form factor: Clamshell. Processor family: AMD Ryzen™ 9, Processor model: 7945HX, Processor frequency: 2.5 GHz. Display diagonal: 40.6 cm (16"), HD type: WQXGA, Display resolution: 2560 x 1600 pixels. Internal memory: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 2 TB, Storage media: SSD. On-board graphics card model: AMD Radeon 610M. Operating system installed: Windows 11 Home. Product colour: Black

Design		Graphics	
Colour name	Black	On-board graphics card model *	AMD Radeon 610M
Product type *	Laptop	NVIDIA G-SYNC	✓
Product colour *	Black	AMD FreeSync	✓
Form factor *	Clamshell	<b>Audio</b>	
Market positioning	Gaming	Audio system	Dolby Atmos
Introduction year	2023	Number of built-in speakers	6
<b>Display</b>		Built-in microphone	✓
Display diagonal *	40.6 cm (16")	Number of microphones	3
Display resolution *	2560 x 1600 pixels	<b>Camera</b>	
Touchscreen *	✗	Front camera	✓
HD type	WQXGA	Front camera HD type	Full HD
Panel type	IPS	Video capturing speed	30 fps
LED backlight	✓	<b>Network</b>	
Native aspect ratio	16:10	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Anti-glare screen	✓	Wi-Fi standards	Wi-Fi 6E (802.11ax)
RGB colour space	DCI-P3	Mobile network connection *	✗
Colour gamut	100%	Antenna type	2x2
Display response rise/fall	3 ms	Ethernet LAN	✓
Maximum refresh rate	240 Hz	Ethernet LAN data rates	10,100,1000,2500 Mbit/s
High Dynamic Range (HDR) supported	✓	Bluetooth	✓
High Dynamic Range (HDR) technology	Dolby Vision	Bluetooth version	5.2
Second display diagonal	35.6 cm (14")	<b>Ports &amp; interfaces</b>	
Second display resolution	3840 x 1100 pixels	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Second display panel type	IPS	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Second display location	Top	Ethernet LAN (RJ-45) ports	1
<b>Processor</b>		HDMI ports quantity *	1
Processor manufacturer *	AMD	HDMI version	2.1
Processor family *	AMD Ryzen™ 9	Combo headphone/mic port	✓
Processor model *	7945HX	Power adapter barrel connector	6.0 mm
Processor cores	16	USB Type-C DisplayPort Alternate Mode	✓
Processor boost frequency	5.4 GHz	USB Power Delivery	✓
Processor frequency *	2.5 GHz		

<b>Processor</b>		<b>Keyboard</b>	
Processor cache	80 MB	Pointing device	NumberPad
Processor cache type	L2 & L3	Numeric keypad *	✗
<b>Memory</b>		Keyboard backlit	✓
Internal memory *	32 GB	Keyboard backlit colour	RGB
Internal memory type	DDR5-SDRAM	Keyboard backlit zone	Per-key RGB
Memory clock speed	4800 MHz	<b>Software</b>	
Memory form factor	SO-DIMM	Operating system architecture	64-bit
Memory layout (slots x size)	2 x 16 GB	Operating system installed *	Windows 11 Home
Memory slots	2x SO-DIMM	<b>Battery</b>	
Maximum internal memory *	64 GB	Battery technology	Lithium-Ion (Li-Ion)
Memory channels	Dual-channel	Number of battery cells	4
<b>Storage</b>		Battery capacity *	90 Wh
Total storage capacity *	2 TB	<b>Power</b>	
Storage media *	SSD	AC adapter power	330 W
Total SSDs capacity	2 TB	AC adapter frequency	50 - 60 Hz
Number of SSDs installed	1	AC adapter input voltage	100 - 240 V
SSD capacity	2 TB	AC adapter output current	16.9 A
SSD interface	PCI Express 4.0	AC adapter output voltage	19.5 V
NVMe	✓	<b>Security</b>	
SSD form factor	M.2	Trusted Platform Module (TPM)	✓
Optical drive type *	✗	Password protection	✓
<b>Graphics</b>		Password protection type	BIOS, User
Discrete GPU manufacturer	NVIDIA	<b>Weight &amp; dimensions</b>	
Discrete graphics card model *	NVIDIA GeForce RTX 4090	Width	355 mm
Discrete graphics card memory	16 GB	Depth	266 mm
Discrete graphics memory type	GDDR6	Height (front)	2.05 cm
On-board graphics card *	✓	Height (rear)	2.97 cm
On-board GPU manufacturer	AMD	Weight *	2.67 kg
Discrete graphics card *	✓		

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