

ASUS ROG Zephyrus Duo 16 GX650PZ-XS96 laptop AMD Ryzen™ 9 7945HX 40.6 cm (16") WQXGA 32 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 4080 Wi-Fi 6E (802.11ax) Windows 11 Pro Black



Brand : ASUS

Product family: ROG

Product code: GX650PZ-XS96

Product name : GX650PZ-XS96

- Windows 11 Pro 64-bit
 - AMD Ryzen 9 7945HX (80MB Cache, 2.5GHz)
 - 40.6 cm (16") WQXGA 2560 x 1600 Mini LED, NVIDIA GeForce RTX 4080 (12GB GDDR6)
 - 32GB (4800MHz) DDR5-SDRAM (2 x 16) & 1000GB SSD
 AMD Ryzen 9 7945HX (80MB Cache, 2.5GHz), 32GB DDR5-SDRAM, 1000GB SSD, 40.6 cm (16") WQXGA 2560 x 1600 Mini LED, AMD Radeon 610M, NVIDIA GeForce RTX 4080 (12GB GDDR6), LAN, WLAN, Webcam, Windows 11 Pro 64-bit
 ASUS ROG Zephyrus Duo 16 GX650PZ-XS96. 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: 1 TB, Storage media: SSD. On-board graphics card model: AMD Radeon 610M. Operating system installed: Windows 11 Pro. Product colour: Black

Design		Graphics	
Colour name	Black	NVIDIA G-SYNC	✓
Product type *	Laptop	AMD FreeSync	✓
Product colour *	Black	Audio	
Form factor *	Clamshell	Audio system	Dolby Atmos
Market positioning	Gaming	Number of built-in speakers	6
Introduction year	2023	Built-in microphone	✓
Display		Number of microphones	3
Display diagonal *	40.6 cm (16")	Camera	
Display resolution *	2560 x 1600 pixels	Front camera	✓
Touchscreen *	✗	Front camera resolution	1920 x 1080 pixels
HD type	WQXGA	Front camera HD type	Full HD
Panel type	Mini LED	Video capturing speed	30 fps
Native aspect ratio	16:10	Network	
Anti-glare screen	✓	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
RGB colour space	DCI-P3	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Colour gamut	100%	Mobile network connection *	✗
Display response rise/fall	3 ms	Antenna type	2x2
Maximum refresh rate	240 Hz	Ethernet LAN	✓
High Dynamic Range (HDR) supported	✓	Ethernet LAN data rates	10,100,1000,2500 Mbit/s
High Dynamic Range (HDR) technology	Dolby Vision	Bluetooth	✓
Second display diagonal	35.6 cm (14")	Bluetooth version	5.2
Second display resolution	3840 x 1100 pixels	Ports & interfaces	
Second display panel type	IPS	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Second display location	Top	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Processor		Ethernet LAN (RJ-45) ports	1
Processor manufacturer *	AMD	HDMI ports quantity *	1
Processor family *	AMD Ryzen™ 9	HDMI version	2.1
Processor generation	AMD Ryzen 7000 Series	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		
Processor frequency *	2.5 GHz		

Processor		Keyboard	
Processor cache	80 MB	Pointing device	NumberPad
Processor cache type	L2 & L3	Numeric keypad *	✗
Memory		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	Software	
Memory form factor	SO-DIMM	Operating system architecture	64-bit
Memory layout (slots x size)	2 x 16 GB	Operating system installed *	Windows 11 Pro
Memory slots	2x SO-DIMM	Battery	
Maximum internal memory *	64 GB	Battery technology	Lithium-Ion (Li-Ion)
Memory channels	Dual-channel	Number of battery cells	4
Storage		Battery capacity *	90 Wh
Total storage capacity *	1 TB	Power	
Storage media *	SSD	AC adapter power	330 W
Total SSDs capacity	1 TB	AC adapter frequency	50 - 60 Hz
Number of SSDs installed	1	AC adapter input voltage	100 - 240 V
SSD capacity	1 TB	AC adapter output current	16.5 A
SSD interface	PCI Express 4.0	AC adapter output voltage	20 V
NVMe	✓	USB Power Delivery (USB PD)	✓
SSD form factor	M.2	Security	
Optical drive type *	✗	Trusted Platform Module (TPM)	✓
Graphics		Password protection	✓
Discrete GPU manufacturer	NVIDIA	Password protection type	BIOS, User
Discrete graphics card model *	NVIDIA GeForce RTX 4080	Weight & dimensions	
Discrete graphics card memory	12 GB	Width	355 mm
Discrete graphics memory type	GDDR6	Depth	266 mm
On-board graphics card *	✓	Height (front)	2.05 cm
On-board GPU manufacturer	AMD	Height (rear)	2.97 cm
Discrete graphics card *	✓	Weight *	2.67 kg
On-board graphics card model *	AMD Radeon 610M		



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