ASUS

ASUS ROG Zephyrus G16 GU605MZ-QR045W Intel Core Ultra 9 185H Laptop 40.6 cm (16") Quad HD+ 32 GB LPDDR5x-SDRAM 2 TB SSD NVIDIA GeForce RTX 4080 Wi-Fi 6E (802.11ax) Windows 11 Home White

Brand : ASUS

Product family: ROG

Product code: 90NR0IR6-M001W0

Product name : GU605MZ-QR045W

Intel Core Ultra 9 185H (24MB Cache), 32GB LPDDR5x-SDRAM, 2000GB SSD, 40.6 cm (16") Quad HD+ 2560 x 1600 OLED, Intel Arc Graphics, NVIDIA GeForce RTX 4080 (12GB GDDR6), WLAN, Webcam, Windows 11 Home 64-bit

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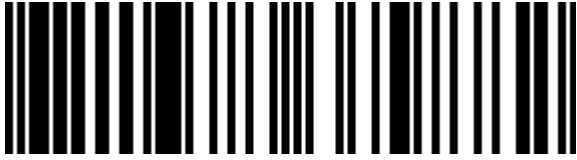
Power, precision, and elegance define the 2024 Zephyrus G16. Thinner and sleeker than ever before, the Zephyrus G16 still has the same sense of style and individuality that has always set it apart from the crowd.
ASUS ROG Zephyrus G16 GU605MZ-QR045W. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 9, Processor model: 185H. Display diagonal: 40.6 cm (16"), HD type: Quad HD+, Display resolution: 2560 x 1600 pixels. Internal memory: 32 GB, Internal memory type: LPDDR5x-SDRAM. Total storage capacity: 2 TB, Storage media: SSD. On-board graphics card model: Intel Arc Graphics, Discrete graphics card model: NVIDIA GeForce RTX 4080. Operating system installed: Windows 11 Home. Product colour: White

Design

Colour name	Platinum White
Product type *	Laptop
Product colour *	White
Form factor *	Clamshell
Market positioning	Gaming
Introduction year	2024
Country of origin	China

Display

Display diagonal *	40.6 cm (16")
Display resolution *	2560 x 1600 pixels
Touchscreen *	✘
HD type	Quad HD+
Panel type	OLED
Native aspect ratio	16:10
Display surface	Gloss
Display brightness	500 cd/m²
RGB colour space	DCI-P3
Colour gamut	100%
Display response rise/fall	0.2 ms
Maximum refresh rate	240 Hz
Contrast ratio (typical)	1000000:1
High Dynamic Range (HDR) supported	✔
High Dynamic Range (HDR) technology	Dolby Vision

Processor

Processor manufacturer *	Intel
Processor family *	Intel Core Ultra 9
Processor model *	185H

Graphics

On-board graphics card *	✔
On-board GPU manufacturer	Intel
Discrete graphics card *	✔
On-board graphics card family	Intel Arc Graphics
On-board graphics card model *	Intel Arc Graphics
NVIDIA G-SYNC	✔

Audio

Audio system	Dolby Atmos
Number of built-in speakers	4
Built-in microphone	✔
Number of microphones	3

Camera

Front camera	✔
Front camera resolution	1920 x 1080 pixels
Front camera HD type	Full HD
Infrared (IR) camera	✔

Network

Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Wi-Fi standards	Wi-Fi 6E (802.11ax)
Mobile network connection *	✘
Antenna type	2x2
Ethernet LAN	✘
Bluetooth	✔
Bluetooth version	5.3

Ports & interfaces

USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2

Processor

Processor cores	16
Processor boost frequency	5.1 GHz
Performance cores	6
Efficient cores	8
Performance-core Max Turbo Frequency	5.1 GHz
Efficient-core Max Turbo Frequency	3.8 GHz
Performance-core base frequency	2.3 GHz
Efficient-core boost frequency	1.8 GHz
Processor cache	24 MB
Processor cache type	Smart Cache
Processor base power	45 W
Maximum turbo power	115 W

Neural processor unit (NPU)

Neural processor unit (NPU)	Intel AI Boost
Maximum frequency NPU	1.4 GHz
Sparsity support	✔
Windows Studio effects support	✔
AI datatype support on NPU	FP16, FP32, Int8
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML

Memory

Internal memory *	32 GB
Internal memory type	LPDDR5x-SDRAM
Memory form factor	On-board
Maximum internal memory *	32 GB
Memory channels	Dual-channel

Storage

Total storage capacity *	2 TB
Storage media *	SSD
Total SSDs capacity	2 TB
Number of SSDs installed	1
SSD capacity	2 TB
SSD interface	PCI Express 4.0
NVMe	✔
SSD form factor	M.2
Optical drive type *	✘
Card reader integrated	✔
Compatible memory cards	SD

Graphics

Discrete GPU manufacturer	NVIDIA
Discrete graphics card model *	NVIDIA GeForce RTX 4080
Discrete graphics card memory	12 GB
Discrete graphics memory type	GDDR6

Ports & interfaces

USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
HDMI ports quantity *	1
HDMI version	2.1
Thunderbolt 4 ports quantity	1
Intel® Thunderbolt 4	✔
Combo headphone/mic port	✔
USB Type-C DisplayPort Alternate Mode	✔
USB Power Delivery	✔

Keyboard

Pointing device	Touchpad
Numeric keypad *	✘
Keyboard backlit	✔

Software

Operating system architecture	64-bit
Operating system installed *	Windows 11 Home

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	4
Battery capacity *	90 Wh
Fast charging	✔
Fast charging time (50%)	30 min

Power

AC adapter power	240 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
AC adapter output current	12 A
AC adapter output voltage	20 V

Security

Face recognition	✔
Windows Hello	✔
Trusted Platform Module (TPM)	✔
Password protection	✔
Password protection type	BIOS, User

Weight & dimensions

Width	355 mm
Depth	246 mm
Height (front)	1.49 cm
Height (rear)	1.74 cm
Weight *	1.95 kg

Packaging data

Package width	90 mm
Package depth	465 mm
Package height	335 mm
Package weight	2.86 kg

Logistics data

Commodity Classification Automated Tracking System (CCATS)	8471300000

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