ASUS ROG Zephyrus G16 GU605CW-XS98-CA Intel Core Ultra 9 285H Laptop 40.6 cm (16") WQXGA 64 GB LPDDR5x-SDRAM 2 TB SSD NVIDIA GeForce RTX 5080 Wi-Fi 7 (802.11be) Windows 11 Pro White





Brand : ASUS

Product family: ROG

Product code: 90NR0LX6-M005C0

Product name : GU605CW-XS98-CA

- Windows 11 Pro 64-bit
- Intel Core Ultra 9 285H (24MB Cache)
- 40.6 cm (16") WQXGA 2560 x 1600 OLED, NVIDIA GeForce RTX 5080 (16GB GDDR7)
- 64GB (7467MHz) LPDDR5x-SDRAM & 2000GB SSD

Intel Core Ultra 9 285H (24MB Cache), 64GB LPDDR5x-SDRAM, 2000GB SSD, 40.6 cm (16") WQXGA 2560 x 1600 OLED, Intel Arc 140T, NVIDIA GeForce RTX 5080 (16GB GDDR7), WLAN, Webcam, Windows 11 Pro 64-bit

ASUS ROG Zephyrus G16 GU605CW-XS98-CA Intel Core Ultra 9 285H Laptop 40.6 cm (16") WQXGA 64 GB LPDDR5x-SDRAM 2 TB SSD NVIDIA GeForce RTX 5080 Wi-Fi 7 (802.11be) Windows 11 Pro White:

The Dawn of A New Age
The 2025 Zephyrus G16 and Windows 11 Pro make gaming, creation, and everything in between a breeze. Featuring an Intel® Core™ Ultra 9 processor 285H and up to an NVIDIA® GeForce RTX™ 5090 Laptop GPU, this 16-inch machine can easily handle the latest games and cutting-edge creative software alike. The Zephyrus G16 can effortlessly transcribe voice notes into text documents, save valuable time during a video render, and play the latest AAA games at blazingly fast refresh rates. The future is here.

Design	
Colour name	Platinum White
Product type *	Laptop
Product colour *	White
Form factor *	Clamshell
Market positioning	Gaming
Introduction year	2025

Display	
Display diagonal *	40.6 cm (16")
Display resolution *	2560 x 1600 pixels
Touchscreen *	✗
HD type	WQXGA
Panel type	OLED
Native aspect ratio	16:10
Display surface	Gloss
Display brightness	500 cd/m²
RGB colour space	DCI-P3
Colour gamut	100%
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 generation	Intel Core Ultra (Series 2)
Processor model *	285H
Processor cores	16
Processor threads	16

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 140T
NVIDIA G-SYNC	✓

Audio	
Audio system	Smart Amp
Speaker power	4 W
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 7 (802.11be)
Wi-Fi standards	Wi-Fi 7 (802.11be)
Mobile network connection *	✗
Antenna type	2x2
Ethernet LAN	✗
Bluetooth	✓
Bluetooth version	5.4

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

Processor	
Processor boost frequency	5.4 GHz
Performance cores	6
Efficient cores	8
Low Power Efficient-cores	2
Performance-core Max Turbo Frequency	5.4 GHz
Efficient-core Max Turbo Frequency	4.5 GHz
Low Power Efficient-core Max Turbo Frequency	2.5 GHz
Performance-core base frequency	2.9 GHz
Efficient-core base frequency	2.7 GHz
Low Power Efficient-core Base Frequency	1000 MHz
Processor cache	24 MB
Processor base power	45 W
Maximum turbo power	115 W

Neural processor unit (NPU)	
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	99 TOPs
NPU performance up to	13 TOPs
GPU performance up to	77 TOPs

Memory	
Internal memory *	64 GB
Internal memory type	LPDDR5x-SDRAM
Memory clock speed	7467 MHz
Memory form factor	On-board
Maximum internal memory *	64 GB
Memory channels	Dual-channel

Storage	
Total storage capacity *	2 TB
Storage media *	SSD
Total SSDs 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 5080
Discrete graphics card memory	16 GB
Discrete graphics memory type	GDDR7

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	✔

Performance	
Repairability index	9.3

Keyboard	
Pointing device	Touchpad
Numeric keypad *	✘
Keyboard backlit	✔
Keyboard backlit colour	RGB
Keyboard backlit zone	1-zone RGB

Software	
Operating system architecture	64-bit
Trial software	1-month trial for new Microsoft 365 customers. Credit card required, McAfee 30 days
Operating system installed *	Windows 11 Pro
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.)

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
DC-in jack	✔
USB Type-C charging port *	✔
USB Power Delivery (USB PD)	✔

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

Weight & dimensions	
Width	354 mm
Depth	246 mm
Height (front)	1.49 cm
Height (rear)	1.74 cm
Weight *	1.95 kg

Packaging content	
AC adapter included *	✔

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