ASUS

ASUS ROG Zephyrus G16 GA605KH-QR017W Copilot+ PC AMD Ryzen AI 7 350 Laptop 40.6 cm (16") 2.5K 32 GB LPDDR5x-SDRAM 1 TB SSD NVIDIA GeForce RTX 5050 Wi-Fi 7 (802.11be) Windows 11 Home Grey

Brand : ASUS   **Product family:** ROG   **Product code:** 90NR0NI1-M000Y0

Product name : GA605KH-QR017W

AMD Ryzen AI 7 350 (2GHz), 32GB LPDDR5x-SDRAM, 1000GB SSD, 40.6 cm (16") 2.5K 2560 x 1600 OLED, AMD Radeon 860M, NVIDIA GeForce RTX 5050 (8GB GDDR7), WLAN, Webcam, Windows 11 Home 64-bit

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ROG ZEPHYRUS G16 (GA605)
Performance Meets Precision

Performance
The Dawn of A New Age
Game and create with ease on this Windows 11 Home powered machine. Featuring an AMD Ryzen™ AI 7 350 processor and an NVIDIA® GeForce RTX™ 5050 Laptop GPU, this 16-inch machine can easily handle the latest games and creative software. Cutting-edge AI features powered by AMD Ryzen™ AI and NVIDIA GeForce RTX™, as well as Microsoft Copilot for enhanced day-to-day productivity. As a certified Copilot+ PC, this machine is ready for all kinds of AI operations, offering better productivity and gaming utility with less power usage.
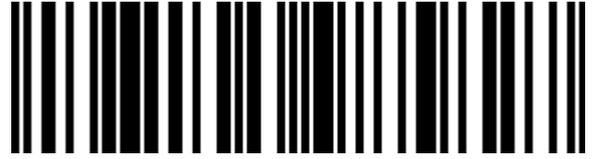
Design

Colour name	Eclipse Gray
Product type *	Laptop
Product colour *	Grey
Form factor *	Clamshell
Housing material	Aluminium
Market positioning	Gaming
Country of origin	China

Display

Display diagonal *	40.6 cm (16")
Display resolution *	2560 x 1600 pixels
Touchscreen *	✗
HD type	2.5K
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 *	AMD
Processor family *	AMD Ryzen AI 7
Processor generation	AMD Ryzen AI 300 Series

Audio

Number of microphones	3

Camera

Front camera	✔
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
Bluetooth	✔
Bluetooth version	5.4

Ports & interfaces

USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
USB4 Gen 3x2 ports quantity	1
HDMI ports quantity *	1
HDMI version	2.1
Combo headphone/mic port	✔
USB Type-C DisplayPort Alternate Mode	✔

Keyboard

Pointing device	Touchpad
Numeric keypad *	✗
Keyboard backlit	✔

Processor

Processor model *	350
Processor cores	8
Processor threads	16
Processor boost frequency	5 GHz
Processor frequency *	2 GHz
Processor cache type	L2 & L3

Neural processor unit (NPU)

Neural processor unit (NPU)	AMD Ryzen AI
Total processor performance up to	66 TOPs
NPU performance up to	50 TOPs

Memory

Internal memory *	32 GB
Internal memory type	LPDDR5x-SDRAM
Memory clock speed	7500 MHz
Memory form factor	On-board
Maximum internal memory *	32 GB
Memory channels	Dual-channel

Storage

Total storage capacity *	1 TB
Storage media *	SSD
Total SSDs capacity	1 TB
Number of SSDs installed	1
SSD capacity	1 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 5050
Discrete graphics card memory	8 GB
Discrete graphics memory type	GDDR7
On-board graphics card *	✔
On-board GPU manufacturer	AMD
Discrete graphics card *	✔
On-board graphics card family	AMD Radeon
On-board graphics card model *	AMD Radeon 860M
NVIDIA G-SYNC	✔

Audio

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

Keyboard

Copilot key	✔

Software

Operating system architecture	64-bit
Microsoft Copilot	✔
Copilot+ PC	✔
Trial software	1-month trial for new Microsoft 365 customers. Credit card required.
Operating system installed *	Windows 11 Home
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	200 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
AC adapter output current	10 A
AC adapter output voltage	20 V
USB Type-C charging port *	✔
USB Power Delivery (USB PD)	✔

Security

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

Sustainability

Sustainability certificates	ENERGY STAR

Weight & dimensions

Width	354 mm
Depth	246 mm
Height (front)	1.49 cm
Height (rear)	1.64 cm
Weight *	1.85 kg

Packaging data

Package width	90 mm
Package height	335 mm
Package weight	4.56 kg

Packaging content

AC adapter included *	✔

Logistics data

Commodity Classification Automated Tracking System (CCATS)	8471300000

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Catalog Object Cloud