

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 | | Graphics | |
|-------------------------------------|-----------------------------|--------------------------------|--------------------|
| Colour name | Platinum White | Discrete graphics memory type | GDDR7 |
| Product type * | Laptop | On-board graphics card * | ✓ |
| Product colour * | White | On-board GPU manufacturer | Intel |
| Form factor * | Clamshell | Discrete graphics card * | ✓ |
| Market positioning | Gaming | On-board graphics card family | Intel Arc Graphics |
| Introduction year | 2025 | On-board graphics card model * | Intel Arc 140T |
| Display | | NVIDIA G-SYNC | ✓ |
| Display diagonal * | 40.6 cm (16") | Audio | |
| Display resolution * | 2560 x 1600 pixels | Audio system | Smart Amp |
| Touchscreen * | ✗ | Speaker power | 4 W |
| HD type | WQXGA | Built-in microphone | ✓ |
| Panel type | OLED | Number of microphones | 3 |
| Native aspect ratio | 16:10 | Camera | |
| Display surface | Gloss | Front camera | ✓ |
| Display brightness | 500 cd/m² | Front camera resolution | 1920 x 1080 pixels |
| RGB colour space | DCI-P3 | Front camera HD type | Full HD |
| Colour gamut | 100% | Infrared (IR) camera | ✓ |
| Maximum refresh rate | 240 Hz | Network | |
| Contrast ratio (typical) | 1000000:1 | Top Wi-Fi standard * | Wi-Fi 7 (802.11be) |
| High Dynamic Range (HDR) supported | ✓ | Wi-Fi standards | Wi-Fi 7 (802.11be) |
| High Dynamic Range (HDR) technology | Dolby Vision | Mobile network connection * | ✗ |
| Processor | | Antenna type | 2x2 |
| Processor manufacturer * | Intel | Ethernet LAN | ✗ |
| Processor family * | Intel Core Ultra 9 | Bluetooth | ✓ |
| Processor generation | Intel Core Ultra (Series 2) | Bluetooth version | 5.4 |
| Processor model * | 285H | | |
| Processor cores | 16 | | |
| Processor threads | 16 | | |

| Processor | | Ports & interfaces | |
|--|--|---|---|
| Processor boost frequency | 5.4 GHz | USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity | 2 |
| Performance cores | 6 | USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity | 1 |
| Efficient cores | 8 | HDMI ports quantity * | 1 |
| Low Power Efficient-cores | 2 | HDMI version | 2.1 |
| Performance-core Max Turbo Frequency | 5.4 GHz | Thunderbolt 4 ports quantity | 1 |
| Efficient-core Max Turbo Frequency | 4.5 GHz | Intel® Thunderbolt 4 | ✓ |
| Low Power Efficient-core Max Turbo Frequency | 2.5 GHz | Combo headphone/mic port | ✓ |
| Performance-core base frequency | 2.9 GHz | USB Type-C DisplayPort Alternate Mode | ✓ |
| 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) | | Keyboard | |
| Neural processor unit (NPU) | Intel AI Boost | Pointing device | Touchpad |
| Sparsity support | ✓ | Numeric keypad * | ✗ |
| Windows Studio effects support | ✓ | Keyboard backlit | ✓ |
| AI software frameworks supported by NPU | DirectML, OpenVINO, Windows ML, ONNX RT, WebNN | Keyboard backlit colour | RGB |
| Total processor performance up to | 99 TOPs | Keyboard backlit zone | 1-zone RGB |
| NPU performance up to | 13 TOPs | | |
| GPU performance up to | 77 TOPs | | |
| Memory | | Software | |
| Internal memory * | 64 GB | Operating system architecture | 64-bit |
| Internal memory type | LPDDR5x-SDRAM | Trial software | 1-month trial for new Microsoft 365 customers. Credit card required, McAfee 30 days |
| Memory clock speed | 7467 MHz | Operating system installed * | Windows 11 Pro |
| Memory form factor | On-board | | 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.) |
| Maximum internal memory * | 64 GB | | |
| Memory channels | Dual-channel | Bundled software | |
| Storage | | Battery | |
| Total storage capacity * | 2 TB | Battery technology | Lithium-Ion (Li-Ion) |
| Storage media * | SSD | Number of battery cells | 4 |
| Total SSDs capacity | 2 TB | Battery capacity * | 90 Wh |
| SSD interface | PCI Express 4.0 | Fast charging | ✓ |
| NVMe | ✓ | Fast charging time (50%) | 30 min |
| SSD form factor | M.2 | | |
| Optical drive type * | ✗ | | |
| Card reader integrated | ✓ | | |
| Compatible memory cards | SD | | |
| Graphics | | Power | |
| Discrete GPU manufacturer | NVIDIA | AC adapter power | 240 W |
| Discrete graphics card model * | NVIDIA GeForce RTX 5080 | AC adapter frequency | 50 - 60 Hz |
| Discrete graphics card memory | 16 GB | 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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Catalog Object Cloud



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