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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

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:

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		Graphics	
Colour name Product type * Product colour * Form factor * Market positioning Introduction year	Platinum White Laptop White Clamshell Gaming 2024	On-board graphics card * On-board GPU manufacturer Discrete graphics card * On-board graphics card family On-board graphics card model * NVIDIA G-SYNC	✓ Intel ✓ Intel Arc Graphics Intel Arc Graphics ✓
Country of origin	China	Audio	
Display Display diagonal * 40.6 cm (16") Display resolution * 2560 x 1600 pixels Touchscreen *	2560 x 1600 pixels	Audio system Number of built-in speakers Built-in microphone Number of microphones	Dolby Atmos 4 ✓ 3
HD type	Quad HD+	Camera	
Panel type Native aspect ratio Display surface Display brightness RGB colour space	OLED 16:10 Gloss 500 cd/m ² DCI-P3	Front camera Front camera resolution Front camera HD type Infrared (IR) camera	✓ 1920 x 1080 pixels Full HD ✓
Colour gamut	100%	Network	
Display response rise/fall Maximum refresh rate Contrast ratio (typical) High Dynamic Range (HDR) supported High Dynamic Range (HDR) technology	0.2 ms 240 Hz 1000000:1 ✓ Dolby Vision	Top Wi-Fi standard * Wi-Fi standards Mobile network connection * Antenna type Ethernet LAN Bluetooth Bluetooth	Wi-Fi 6E (802.11ax) Wi-Fi 6E (802.11ax) X 2x2 X 5.3
Processor		Ports & interfaces	
Processor manufacturer * Processor family * Processor model *	Intel Intel Core Ultra 9 185H	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2

Processor (Processor (Proces				
Processor boost frequency1. GHzport quantity1.Performance cores6HDM ports quantity1.Performance core Max Turbo5.1 GHzTunderbolt 4 ports quantity1.Performance core Max Turbo3.8 GHzComo headphone/mit port7.Efficient core Max Turbo Frequency3.8 GHzComo headphone/mit port7.Performance core base frequency3.8 GHzUSB Type-C DisplayPart Atlennate7.Processor cache24 MBUSB Type-C DisplayPart Atlennate7.Processor cache typeSmart CacheKeytoartTouchpadProcessor cache15 WNumeric Kaypad7.Processor cache typeSmart CacheOperating system installed6.4-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	Processor		Ports & interfaces	
Maximum turbo power115 WNumeric KeypadKachNeural processor unit (NPU)Intel Al BoostSeffwareInternal Mercic KeypadNaural processor unit (NPU)1.4 GboostOperating system architecture64-bitSparsity support1.4 GH2Operating system installedWindows 11 HomeSparsity supportIIntel Al BoostBatteryA datatyse supportVFP16, FP32, Int3Battery technologyLithium-Ion (Li-Ion)Al datatyse support on NPPF16, FP32, Int3Battery technologyLithium-Ion (Li-Ion)Al datatyse support on NPSeffect90 WhSeffectMemory of male22 GBBattery technologyJonaInternal memory *32 GBAcadapter power30 oninInternal memory fusionOn-boardPowerSeffectMaximum internal memory *32 GBAcadapter power240 WMemory forn factorOn-boardPowerSeffectTotal storage capacity *21 BAcadapter noty torlage10-240 VStorage media *S50Soff240 VStorage media *S50Soff40-240 VStorage media *S1Soffware40-240 VS50 capacity *21 BVindows Hello4S50 capacity *21 BSoword protection type350 SeffwareS50 capacity *21 BSoword protection type350 SeffwareS50 capacity *N2N2Soffware4S50 capacity *N2Soffware355 mm<	Processor cores Processor boost frequency Performance cores Efficient cores Performance-core Max Turbo Frequency Efficient-core Max Turbo Frequency Performance-core base frequency Efficient-core boost frequency Processor cache	5.1 GHz 6 8 5.1 GHz 3.8 GHz 2.3 GHz 1.8 GHz 24 MB	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity HDMI ports quantity * HDMI version Thunderbolt 4 ports quantity Intel® Thunderbolt 4 Combo headphone/mic port USB Type-C DisplayPort Alternate Mode USB Power Delivery	1 2.1 1
Neural processor unit (NPU)Intel AI BoostKeybaard backlit✓Neural processor unit (NPU)Intel AI BoostSoftware✓Maximum frequency NPU1.4 GHzOperating system architecture64-bitSparsity support✓Operating system architecture64-bitAI datatype support on NPUFP16, FP32, Int8BatteryAI software frameworks supportedDirecting, ONNR RT, OpervINO, Windows MLBattery technologyLithium-Ion (Li-Ion)AI software frameworks supportJ2 GBFast charging✓Internal memory *32 GBFast charging ime (50%)30 minInternal memory torm factorOn-boardPowerMemory form factorOn-boardAC adapter frequency20 O VMemory form factorOn-boardAC adapter output voltage100 - 240 VStorageZTBAC adapter output voltage100 - 240 VTotal storage capacity *2 TBAC adapter output voltage20 VStorage media *SSDSSDSSDNumber of SSDs installed1Face recognition✓SSD interfaceVIE Express 4.0Password protection type40Number of SSDs installed1Password protection type40SSD interfaceVIDIAPassword protection type40Optical drive type*XWindow40SSD interfaceVIDIAPassword protection type355 mmOptical drive type*XWindh355 mmDiscrete gr	·		Pointing device	Touchpad
Neural processor unit (NPU)Intel Al BoostSoftwareMaximum frequency NPU1.4 GHzOperating system architecture64-bitSparsity support/Operating system installed *Windows 11 HomeMindows Studie offectus supportFP16, FP32, Int8BatteryUithum-Ion (Li-Ion)Al datatype support on NPUFP16, FP32, Int8Battery technologyLithium-Ion (Li-Ion)Al software frameworks supportedDirectMi, ONNX RT, OpenVINO, Windows MLBattery technologyLithium-Ion (Li-Ion)Memory32 GBFast charging/AInternal memory *32 GBFast charging time (50%)30 minInternal memory form factorOn-baordPower	·	115 W		
Maximum frequency NPU1.4 GHzOperating system architecture Operating system installed*64-bitSparsity support✓Operating system installed*Windows 11 HomeWindows Studio effects supportFP16, FP32, Int8BatteryWindows 11 HomeAl datatype support on NPUFP16, FP32, Int8Battery technologyLifutur-Jon (Li-Jon)Al software frameworks supportDirectML, ONNX RT, OpenVINO, Windows MLBattery calls4Memory32 GBBattery capacity*90 WhInternal memory typeLPDDRSx-SDRAMFast charging time (50%)30 minMemory form factorOn-boardPower240 WMaximum internal memory32 GBAC adapter power240 WMaximum internal memory22 GBAC adapter output voltage20 VStorageValle-channelAC adapter output voltage20 VStorage capacity2 TBAC adapter output voltage20 VStorage endia*SSDSSDVindows Hello4SSD capacity2 TBWindows Hello4SSD form factorM.2Password protection type80S, UserNumber of SSDs installed1Storage media*35 SmSSD form factorVIDIAPassword protection type35 SmOptical firty type*XWindow SHL35 SmCard reader integratedVIDIA Geforce RTX 4080Window SHLDiscrete graphics card modelNIDIA Geforce RTX 4080Wight*1.4 gerDiscrete graphics card modelSD Sm <td>-</td> <td></td> <td>Keyboard backlit</td> <td>4</td>	-		Keyboard backlit	4
Al datatype support on NPU Al software frameworks support by NPUFP13, FP32, In8BatteryHertyLithium-Ion (Li-Ion)Al software frameworks support by NPUDirectML, ONXX RT, OpenVINO, Windows MLNumber of battery cells4Memory32 GBBattery capacity *90 WhInternal memory typeLPDDR5x-SDRAMFast charging time (50%)30 minMemory form factorOn-boardPowerMaximum internal memory *2G GBA Cadapter power240 WMemory form factorQual-channelAC dadpter frequency50 - 60 HzMemory form factor2 GBAC dadpter output current12 ATotal storage capacity *2 TBAC dadpter output voltage100 - 240 VStorage media *SSDSSDCadapter output voltage100 - 240 VTotal storage capacity *2 TBAC dadpter output voltage20 VSSD capacity2 TBWindows Hello44SSD capacity2 TBWindows Hello44SSD form factorM2Password protection4SSD form factorM2Password protection type80S, UserOptical drive type *SDPoint46 mmSSD form factorNVIDAPassword protection type46 mmCard reader integratedVIDIAWindows1.94 cmOptical drive type *NVIDASD90 mmSD form factorNVIDIAHeight (rear)1.95 kgDiscrete GPU manufacturerNVIDIA Geforce RTX 4080<	Maximum frequency NPU Sparsity support	1.4 GHz ✓	Operating system architecture	
Al software frameworks supports by NPUDirect ML, ONNX RT, Open VINO Windows MLBattery technology Number of battery cellsLithium-lon (Li-lon)Memory Internal memory * Internal memory * Internal memory by Memory form factor32 GB (PDDR5x-SDRAMFast charging time (50%)30 minMemory form factorOn-boardPover240 WMaximum internal memory * Memory channels32 GBCadapter prequency50-60 Hz2Maximum internal memory * Memory channels22 GBCadapter inqui voltage100 - 240 WStorageCadapter output voltage100 - 240 W240 WStorage media * Storage media * Storage media *SDCadapter output voltage20 VTotal Storage capacity * Storage media * Storage media *SDFast crecognition4Storage media * Storage media * Storage media *SDFast crecognition✓Number of SSDs installed1Face recognition✓√Storage media * Storage media *NILPasword protection Module (TPM)✓VMeVINAPasword protection typeWindows Hello✓Number of SSDs installed1SoSoNumber of SSD installedNLPasword protection type✓Storage media * Storage media * Storage media *MILMILNumber of SSDs installedNLPasword protection type✓Number of SSD installedNLMILMIL <td></td> <td></td> <td>Battery</td> <td></td>			Battery	
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Internal memory * 32 GB Fast charging time (50%) 30 min Internal memory type LPDDR5x-SDRAM Power Memory for factor On-board Power Maximum internal memory * 32 GB AC Adapter power 240 W Memory channels Dual-channel AC adapter frequency 50 - 60 Hz Storage Julie Channel AC adapter input voltage 50 - 60 Hz AC adapter output voltage 12 A AC adapter output voltage 20 V AC adapter output voltage 20 V Storage media * SSD Cadanter output voltage 20 V Storage media * SSD Sinstalled 1 SSD capacity 2 TB S SSD capacity 2 TB S SSD capacity 2 TB Factor 20 Security 20 V SSD interface PCI Express 4.0 Face recognition 4 SSD interface PCI Express 4.0 Face recognition 4 SSD form factor M.2 PCI Express 4.0 Face Power 8 SSD form factor M.2 PCI Express 4.0 Face Power 8 SSD form factor M.2 PCI Express 4.0 Face Power 8 SSD form factor M.2 PCI Express 4.0 Face Power 8 SSD form factor M.2 PCI Express 4.0 Face Power 8 SSD form factor M.2 PCI Express 4.0 Face Power 8 SSD form factor M.2 PCI Express 4.0 Face Power 9 SSD form factor M.2 PCI Express 4.0 Face Power 9 SSD form factor M.2 PCI Express 4.0 Face Power 9 SSD form factor M.2 PCI Express 4.0 Face Power 9 SSD form factor M.2 PCI Express 4.0 Face Power 9 SSD form factor M.2 PCI Express 4.0 Face Power 9 SSD form factor M.2 PCI Express 4.0 Face Power 9 Power 9 SSD form factor M.2 PCI Express 4.0 PCI Express 4.0 Face Power 9 SSD form factor M.2 PCI Express 4.0 PC	Memory			90 WII
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Compatible memory cardsSDWidth355 mmGraphicsDepth246 mmGraphicsHeight (front)1.49 cmDiscrete GPU manufacturerNVIDIA GEForce RTX 4080Height (rear)1.74 cmDiscrete graphics card memory12 GBPackage width90 mmDiscrete graphics memory typeGDDR6Package depth465 mmPackage height335 mm			Weight & dimensions	
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Discrete graphics memory type GDDR6 Package width 90 mm Package depth 465 mm Package height 335 mm	Discrete graphics card model *	NVIDIA GeForce RTX 4080	S	
Package width 90 mm Package depth 465 mm Package height 335 mm			Packaging data	
	Discrete graphics memory type	9799	Package depth Package height	465 mm 335 mm

Logistics data Commodity Classification Automated Tracking System (CCATS)

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