

GIGABYTE AORUS MASTER 16 BYHC5DEE65SP laptop Intel Core Ultra 9 275HX 40.6 cm (16") WQXGA 32 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 5080 Wi-Fi 7 (802.11be) Windows 11 Pro German Black

Brand : GIGABYTE

Product code: AORUS MASTER 16 BYHC5DEE65SP

Product name : AORUS MASTER 16 BYHC5DEE65SP

GIGABYTE AORUS MASTER 16 BYHC5DEE65SP. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 9, Processor model: 275HX. Display diagonal: 40.6 cm (16"), HD type: WQXGA, Display resolution: 2560 x 1600 pixels. Internal memory: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 2 TB, Storage media: SSD. On-board graphics card model: Intel® Graphics, Discrete graphics card model: NVIDIA GeForce RTX 5080. Operating system installed: Windows 11 Pro. Product colour: Black



Design		Graphics	
Colour name	Dark Tide	Discrete graphics memory type	GDDR7
Product type *	Laptop	On-board graphics card *	✓
Product colour *	Black	On-board GPU manufacturer	Intel
Form factor *	Clamshell	Discrete graphics card *	✓
Introduction year	2025	On-board graphics card family	Intel® Graphics
Country of origin	Taiwan	On-board graphics card model *	Intel® Graphics
Original brand name	GIGABYTE	Audio	
Display		Audio system	Dolby Atmos
Display diagonal *	40.6 cm (16")	Number of built-in speakers	4
Display resolution *	2560 x 1600 pixels	Speaker power	2 W
Touchscreen *	✗	Built-in microphone	✓
HD type	WQXGA	Camera	
Panel type	OLED	Front camera	✓
Native aspect ratio	16:10	Front camera resolution	1920 x 1080 pixels
Maximum display brightness (HDR)	500 cd/m²	Front camera HD type	Full HD
RGB colour space	DCI-P3	Infrared (IR) camera	✓
Colour gamut	100%	Network	
Maximum refresh rate	240 Hz	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Contrast ratio (typical)	1000000:1	Wi-Fi standards	Wi-Fi 7 (802.11be)
High Dynamic Range (HDR) supported	✓	Mobile network connection *	✗
High Dynamic Range (HDR) technology	DisplayHDR True Black 500	Ethernet LAN	✓
Processor		Ethernet LAN data rates	10,100,1000 Mbit/s
Processor manufacturer *	Intel	Bluetooth	✓
Processor family *	Intel Core Ultra 9	Bluetooth version	5.4
Processor generation	Intel Core Ultra (Series 2)		
Processor model *	275HX		

Processor		Ports & interfaces	
Processor cores	24	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Processor threads	24	Ethernet LAN (RJ-45) ports	1
Processor boost frequency	5.4 GHz	HDMI ports quantity *	1
Performance cores	8	HDMI version	2.1
Efficient cores	16	Thunderbolt 4 ports quantity	1
Performance-core Max Turbo Frequency	5.4 GHz	Thunderbolt 5 ports quantity	1
Efficient-core Max Turbo Frequency	4.6 GHz	Intel® Thunderbolt 4	✓
Performance-core base frequency	2.7 GHz	Intel® Thunderbolt 5	✓
Efficient-core base frequency	2.1 GHz	Combo headphone/mic port	✓
Processor cache	36 MB	USB Type-C DisplayPort Alternate Mode	✓
Processor base power	55 W	Keyboard	
Maximum turbo power	160 W	Pointing device	Touchpad
Neural processor unit (NPU)		Numeric keypad *	✗
Neural processor unit (NPU)	Intel AI Boost	Keyboard backlit	✓
Sparsity support	✓	Keyboard backlit colour	RGB
Windows Studio effects support	✓	Keyboard backlit zone	3-zone RGB
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Keyboard layout	QWERTZ
Total processor performance up to	36 TOPs	Keyboard language	German
NPU performance up to	13 TOPs	Software	
GPU performance up to	8 TOPs	Operating system installed *	Windows 11 Pro
Memory		Battery	
Internal memory *	32 GB	Battery technology	Lithium Polymer (LiPo)
Internal memory type	DDR5-SDRAM	Number of battery cells	4
Memory clock speed	5600 MHz	Battery capacity *	99 Wh
Memory layout (slots x size)	2 x 16 GB	Battery weight	338 g
Memory slots	2x SO-DIMM	Power	
Maximum internal memory *	64 GB	AC adapter power	330 W
Storage		AC adapter frequency	50/60 Hz
Total storage capacity *	2 TB	AC adapter input voltage	100 - 240 V
Storage media *	SSD	USB Power Delivery (USB PD)	✓
Total SSDs capacity	2 TB	Security	
Number of SSDs installed	2	Trusted Platform Module (TPM)	✓
SSD capacity	1 TB	Weight & dimensions	
SSD interface	PCI Express 4.0	Width	357 mm
NVMe	✓	Depth	254 mm
SSD form factor	M.2	Height (front)	2.3 cm
Optical drive type *	✗	Height (rear)	2.99 cm
Card reader integrated	✓	Weight *	2.5 kg
Compatible memory cards	MicroSD (TransFlash)	Packaging data	
Graphics		Package width	108 mm
Discrete GPU manufacturer	NVIDIA	Package depth	429 mm
Discrete graphics card model *	NVIDIA GeForce RTX 5080	Package height	339 mm
Discrete graphics card memory	16 GB	Package weight	5.2 kg
		Packaging content	
		AC adapter included *	✓
		Number of batteries	1
		Logistics data	
		Products per shipping (inner) case	1 pc(s)
		Other features	
		Batteries included	✓
		Warranty period	2 year(s)



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