

GIGABYTE AORUS MASTER 16 BYH Gaming Laptop - 16.0", 240Hz OLED, Intel Core 275HX, NVIDIA RTX 5080 GPU, 32GB DDR5 5600MHz, 2 x Gen4 1TB SDD, Windows 11 Pro, 2 Year Warranty, AORUS MASTER 16 BYHC5UKE65SP

Brand : GIGABYTE

Product code: AORUS MASTER 16 BYHC5UKE65SP

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- Windows 11 Pro
- NVIDIA GeForce RTX 5080 Laptop GPUs
- Intel Core Ultra 9 275HX Processor
- 16.0" 16:10 WQXGA (2560x1600) 240Hz OLED Display
- WINDFORCE Infinity EX Cooling: Up to 230-watt Max TDP
- Advanced Optimus: DDS Technology
- Dolby Atmos and Dolby Vision
- Supports PCIe Gen5 SSD, DDR5 memory, and Wi-Fi 7

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The AORUS MASTER 16 combines NVIDIA GeForce RTX 50 GPUs and Intel Core Ultra 200HX Series Processor for top-tier power. Its 16" OLED display offers 100% DCI-P3 gamut and a 240Hz refresh rate. WINDFORCE cooling ensures stable performance, making it ideal for gamers and creators alike.



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		Ports & interfaces	
Processor model *	275HX	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Processor cores	24	Ethernet LAN (RJ-45) ports	1
Processor threads	24	HDMI ports quantity *	1
Processor boost frequency	5.4 GHz	HDMI version	2.1
Performance cores	8	Thunderbolt 4 ports quantity	1
Efficient cores	16	Thunderbolt 5 ports quantity	1
Performance-core Max Turbo Frequency	5.4 GHz	Intel® Thunderbolt 4	✓
Efficient-core Max Turbo Frequency	4.6 GHz	Intel® Thunderbolt 5	✓
Performance-core base frequency	2.7 GHz	Combo headphone/mic port	✓
Efficient-core base frequency	2.1 GHz	USB Type-C DisplayPort Alternate Mode	✓
Processor cache	36 MB	Keyboard	
Processor base power	55 W	Pointing device	Touchpad
Maximum turbo power	160 W	Numeric keypad *	✗
Neural processor unit (NPU)		Keyboard backlit	✓
Neural processor unit (NPU)	Intel AI Boost	Keyboard backlit colour	RGB
Sparsity support	✓	Keyboard backlit zone	3-zone RGB
Windows Studio effects support	✓	Keyboard layout	QWERTY
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Keyboard language	UK English
Total processor performance up to	36 TOPs	Software	
NPU performance up to	13 TOPs	Operating system installed *	Windows 11 Pro
GPU performance up to	8 TOPs	Battery	
Memory		Battery technology	Lithium Polymer (LiPo)
Internal memory *	32 GB	Number of battery cells	4
Internal memory type	DDR5-SDRAM	Battery capacity *	99 Wh
Memory clock speed	5600 MHz	Battery weight	338 g
Memory layout (slots x size)	2 x 16 GB	Power	
Memory slots	2x SO-DIMM	AC adapter power	330 W
Maximum internal memory *	64 GB	AC adapter frequency	50/60 Hz
Storage		AC adapter input voltage	100 - 240 V
Total storage capacity *	2 TB	USB Power Delivery (USB PD)	✓
Storage media *	SSD	Security	
Total SSDs capacity	2 TB	Trusted Platform Module (TPM)	✓
Number of SSDs installed	2	Weight & dimensions	
SSD capacity	1 TB	Width	357 mm
SSD interface	PCI Express 4.0	Depth	254 mm
NVMe	✓	Height (front)	2.3 cm
SSD form factor	M.2	Height (rear)	2.99 cm
Optical drive type *	✗	Weight *	2.5 kg
Card reader integrated	✓	Packaging data	
Compatible memory cards	MicroSD (TransFlash)	Package width	108 mm
Graphics		Package depth	429 mm
Discrete GPU manufacturer	NVIDIA	Package height	339 mm
Discrete graphics card model *	NVIDIA GeForce RTX 5080	Package weight	5.2 kg
Discrete graphics card memory	16 GB	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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