

GIGABYTE AORUS MASTER 18 BYHC5DED65SP laptop Intel Core Ultra 9 275HX 45.7 cm (18") 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 18 BYHC5DED65SP

Product name : AORUS MASTER 18 BYHC5DED65SP



GIGABYTE AORUS MASTER 18 BYHC5DED65SP. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 9, Processor model: 275HX. Display diagonal: 45.7 cm (18"), 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	5-degree Black	Discrete graphics card memory	16 GB
Product type *	Laptop	Discrete graphics memory type	GDDR7
Product colour *	Black	On-board graphics card *	✓
Form factor *	Clamshell	On-board GPU manufacturer	Intel
Introduction year	2025	Discrete graphics card *	✓
Country of origin	Taiwan	On-board graphics card family	Intel® Graphics
Original brand name	GIGABYTE	On-board graphics card model *	Intel® Graphics
Display		Audio	
Display diagonal *	45.7 cm (18")	Audio system	Dolby Atmos
Display resolution *	2560 x 1600 pixels	Number of built-in speakers	2
Touchscreen *	✗	Speaker power	4 W
HD type	WQXGA	Built-in microphone	✓
Panel type	Mini LED	Camera	
Native aspect ratio	16:10	Front camera	✓
Display brightness	1200 cd/m²	Front camera HD type	Full HD
RGB colour space	DCI-P3	Network	
Colour gamut	100%	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Maximum refresh rate	240 Hz	Wi-Fi standards	Wi-Fi 7 (802.11be)
Contrast ratio (typical)	1000000:1	Mobile network connection *	✗
High Dynamic Range (HDR) supported	✓	Ethernet LAN	✓
High Dynamic Range (HDR) technology	DisplayHDR 1000	Ethernet LAN data rates	2500 Mbit/s
Processor		Bluetooth	✓
Processor manufacturer *	Intel	Bluetooth version	5.4
Processor family *	Intel Core Ultra 9	Ports & interfaces	
Processor generation	Intel Core Ultra (Series 2)	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Processor model *	275HX		

Processor	
Processor cores	24
Processor threads	24
Processor boost frequency	5.4 GHz
Performance cores	8
Efficient cores	16
Performance-core Max Turbo Frequency	5.4 GHz
Efficient-core Max Turbo Frequency	4.6 GHz
Performance-core base frequency	2.7 GHz
Efficient-core base frequency	2.1 GHz
Processor cache	36 MB
Processor base power	55 W
Maximum turbo power	160 W
Neural processor unit (NPU)	
Neural processor unit (NPU)	Intel AI Boost
Sparsity support	✓
Windows Studio effects support	✓
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN
Total processor performance up to	36 TOPs
NPU performance up to	13 TOPs
GPU performance up to	8 TOPs
Memory	
Internal memory *	32 GB
Internal memory type	DDR5-SDRAM
Memory clock speed	5600 MHz
Memory layout (slots x size)	2 x 16 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	128 GB
Storage	
Total storage capacity *	2 TB
Storage media *	SSD
Total SSDs capacity	2 TB
Number of SSDs installed	2
SSD capacity	1 TB
SSD interface	PCI Express 4.0
NVMe	✓
SSD form factor	M.2
Optical drive type *	✗
Graphics	
Discrete GPU manufacturer	NVIDIA
Discrete graphics card model *	NVIDIA GeForce RTX 5080
Ports & interfaces	
Ethernet LAN (RJ-45) ports	1
Thunderbolt 4 ports quantity	1
Intel® Thunderbolt 4	✓
Combo headphone/mic port	✓
Keyboard	
Pointing device	Touchpad
Numeric keypad *	✓
Keyboard backlit	✓
Keyboard backlit colour	RGB
Keyboard backlit zone	Per-key RGB
Keyboard layout	QWERTZ
Keyboard language	German
Software	
Operating system installed *	Windows 11 Pro
Battery	
Battery technology	Lithium Polymer (LiPo)
Number of battery cells	4
Battery capacity *	99 Wh
Battery weight	338 g
Power	
AC adapter power	400 W
AC adapter frequency	50/60 Hz
AC adapter input voltage	100 - 240 V
USB Power Delivery (USB PD)	✓
Security	
Trusted Platform Module (TPM)	✓
Weight & dimensions	
Width	400.8 mm
Depth	287 mm
Height (front)	2.53 cm
Height (rear)	3.09 cm
Weight *	3.5 kg
Packaging data	
Package width	115 mm
Package depth	480 mm
Package height	380 mm
Package weight	6.6 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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