



GIGABYTE™ | AORUS

2026
AORUS MASTER 16

MASTER 16 6YJM5DEE65SP EAN 4719331771447

Model	AORUS MASTER 16
Project Name	AM66YJ
OS	Windows® 11 Pro
CPU	AMD Ryzen™ 9 9955HX3D (Up to 5.4 GHz, 32 threads : 16 cores)
Display	16" 16:10 WQXGA 2560x1600 OLED 240Hz Display (DCI-P3 100%, HDR 1000, 1,000,000:1 Contrast ratio, Pantone® Validated, TÜV Rheinland-certified, Dolby Vision®, VESA DisplayHDR™ True Black 1000, VESA ClearMR 10000)
Memory	32GB (2x16) DDR5 5600 2x DDR5 Slots (Up to 64GB, DDR5 5600MHz)
GPUs	NVIDIA® GeForce RTX™ 5080 Laptop GPU 16GB GDDR7 Max. TGP 175W 1334 AI TOPS (with Dynamic Boosts) *May vary by scenario. Thermal Capacity: 230W, Support MUX Switch
Storage	2TB (2x 1TB M.2 PCIe Gen 4 SSD) (2 Slots: 1x slot support PCIe Gen5, 1x slots support PCIe Gen4x4, Up to 4TB)
Keyboard Type	3-Zone RGB Backlit Keyboard, Up to 1.7mm Key-travel (Support N-Key)
I/O Port	2 x Type-A support USB3.2 Gen2, 1 x Type-C USB3.2 (support DisplayPort™ 2.0 and Power Delivery 3.0), 1 x Type-C USB4 (support DisplayPort™ 1.4 and Power Delivery 3.0), 1 x HDMI 2.1 FRL (from dGPU), 1 x MicroSD (UHS-II), 1 x Audio Jack support mic / headphone combo, 1 x DC in, 1 x RJ-45
Audio	4 Speakers, Microphone, Dolby Atmos® with Smart AMP
Communication	Wi-Fi: Wi-Fi 7 Wireless (802.11be 2x2) LAN: 1G Bluetooth: Bluetooth® V5.4
Built-in App	GiMATE
Adapter	330W AC Adapter
Battery	Li-ion 99Wh
Dimensions	35.7(W) x 25.5(D) x 1.9~2.5(H) cm
Weight	~2.3 kg

Up to AMD
Ryzen™ 9 9955HX3D
Processor

Up to NVIDIA®
GeForce RTX™ 5090
Laptop GPU
with **Max TGP 175W**

Up to
1824 AI TOPS
Advanced GPU AI Performance



MUX Switch
Support



Copilot



GIGABYTE
GIMATE AI Agent

AORUS



AORUS MASTER 16
PLAY TO DIFFER



16:10 2.5K 240 Hz OLED True HDR 1000 Display

Up to 0.2 ms Response Time
100% DCI-P3
1,000,000:1 Contrast Ratio



VESA CERTIFIED
DisplayHDR™ 1000

Dolby
ATMOS



**4 Dual-force Speakers with
Smart Amplifier**

WINDFORCE INFINITY EX | Smart Cooling

230W

Total Thermal Power

Vapor Chamber

3D VortX
Air-channeling

Frost Fan 2.0
Design

0dB

Ambient Experience

Icy Touch

WASD Cool Zone



99 Wh

Battery Capacity

Fast Charging

50% in 30 mins in AC Mode



Wi-Fi 7



FHD IR camera

Supports Windows Hello

Starting at
19 mm Ultra-thin
Design

AORUS 5° Black

**Signature
RGB Lighting**



AORUS MASTER 16

Key Features



Up to AMD Ryzen™ 9
9955HX3D Processor
Up to 140W Max TDP



nVIDIA.

Up to RTX5090
1824 AI TOPS



GIGABYTE
GiMATE AI



175W
Max TGP
230W
CPU+GPU

WINDFORCE Infinity EX
0dB Smart Cooling
Vapor Chamber



19 mm Thin
2.3 KG Light



HDR 1000
DCIP-3 100%

OLED WQXGA 240Hz
True HDR Experience



x4

Speaker with Smart AMP
Cinema Experience

Dolby
VISION·ATMOS

True-to-Life Contrast
Cinema Experience



WiFi 7



Type-C

USB4
PD 3.0 Supported



Windows Hello

FHD IR Camera
Biometric Support



50%
In 30Min

99Wh Battery
Fast Charge Support

Best-In-Class Thermal Power

Dual Power Fan Design

Frost Fan 2.0 with 160 Blades | Lateral Housing |
Noise-cancelling Design



Efficient Overall Thermal

Large-covered vapor chamber | 230W Total
Thermal Design | 0.075mm Ultra-Thin Fins

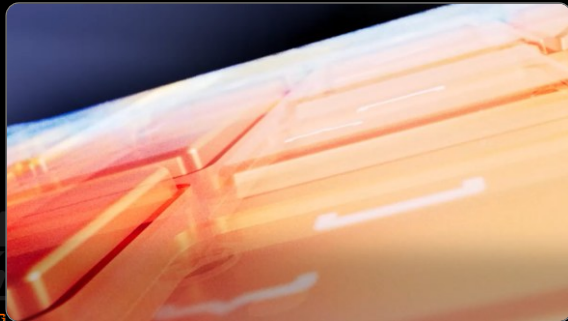


3D VortX Air-Channelling

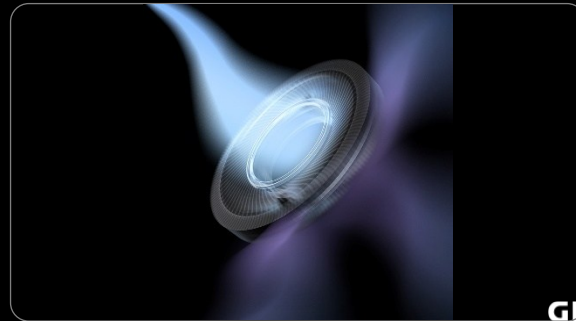
Keyboard Inlet | D-cover Inlet |
4-way Outlets



Icy Touch WASD Cool Zone



0dB Ambient Experience





Personal Cinema - Display

Top-of-the-line in Sight.

2560 x 1600

WQXGA resolution

240 Hz

refresh rate

Up to 0.2ms

response time



HDR 1000

peak brightness

1,000,000:1

contrast ratio

100% DCI-P3

color gamut



VESA CERTIFIED

DisplayHDR™ 1000



VESA CERTIFIED

ClearMR 10000



Dolby
VISION



Low Blue Light
(Software
Solution)
Flicker Free

www.tuv.com
ID 1111274310



Personal Cinema - Audio
Mind-blowing Sounds.

4
speakers

Dual-force Design
reduces vibrations
and distortion



Smart Amplifier
louder volume, deeper bass &
higher dynamic range

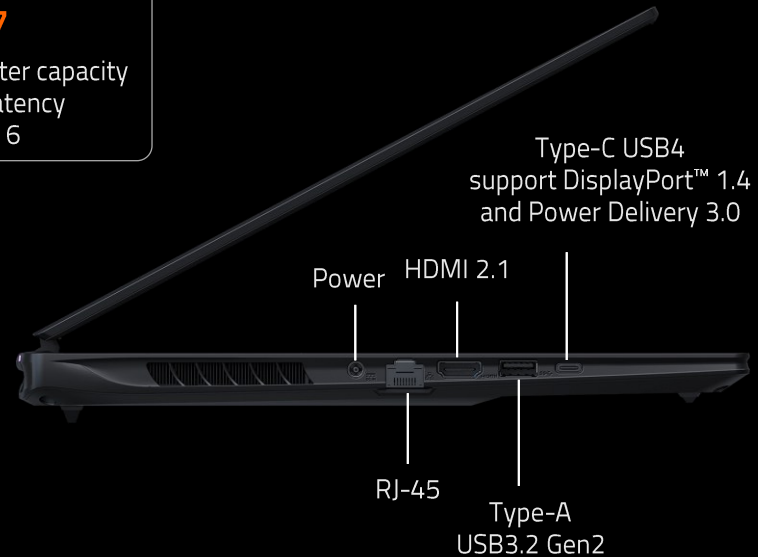


IO Ports & Wi-Fi 7

MASTER-GRADE CONNECTIVITY

Wi-Fi 7

4.8x faster / 5x greater capacity
/ 100x lower latency
than Wi-Fi 6



Design & Craftsmanship
Pure. Sleek. Effortless.

AORUS RGB Logo
customizable RGB Lighting



AORUS Beacon
Stylish logo projector

5° Black
Anodized Mate Finished
Glow in Multilayer

3-Zone RGB
Keyboard



Enormous
Touchpad

Alluring Nameplate
Detail

4-sided
Slim Bezels



Atmosphere RGB
Lighting

19mm
Thin



Productivity

All-round Versatility

99 Wh

Battery Capacity

PD 3.0

Support

Fast Charge

50% in 30 mins in AC Mode

FHD IR Camera

Support Windows Hello





GiMate

GiMATE, Your Smart AI Mate.



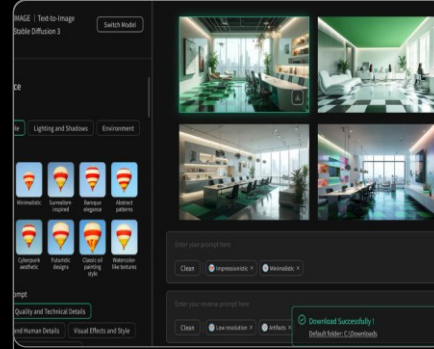
Embedded LLM

GiMATE is built upon an advanced Large Language Model (LLM) to understand and anticipate your needs.



G-Cell Technology

A suite of proprietary AI technologies that seamlessly tailor hardware optimizations to the user experience.



GiMATE Creator

AI image generation with ease an improved user interface and by importing the latest models from Hugging Face.



GiMATE Coder

A trusted AI tool that accelerates coding workflows — enabling you to create, polish, and refactor with the latest AI models, all running locally for maximum security.



[Learn More Details on GiMATE Landing Page](#)

