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GIGABYTE B840M D2H Motherboard - AMD Ryzen 9000 CPUs, 5+2+2 Phases VRM, up to 7600MHz DDR5, 1xPCIe 4.0 + 1xPCIe 3.0 M.2, 2.5GbE LAN, USB 3.2 Gen 1

Brand : GIGABYTE

Product code: B840M D2H

Product name : B840M D2H Motherboard - AMD Ryzen 9000 CPUs, 5+2+2 Phases VRM, up to 7600MHz DDR5, 1xPCIe 4.0 + 1xPCIe 3.0 M.2, 2.5GbE LAN, USB 3.2 Gen 1

- X3D Turbo Mode to unleash new era gaming performance
- AMD Socket AM5 : Supports AMD Ryzen 9000 / 8000 / 7000 Series Processors
- Digital 5+2+2 phases VRM solution
- Dual Channel DDR5 : 2*DIMMs with AMD EXPO Memory Module Support
- EZ-Latch : PCIe x16 Slot with Quick Release Design
- Friendly UI : Multi-Theme, AIO Fan Control, and Q-Flash Auto Scan in BIOS and SW
- Ultra-Fast Storage : 2*M.2 slots, including 1* PCIe 4.0 x4
- Fast Networking : 2.5GbE LAN

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Elevate your computing experience with GIGABYTE's renowned motherboard series: AORUS, AERO, and GIGABYTE. Featuring innovative designs and advanced features, these boards offer exceptional performance and reliability. Whether you're a gamer, content creator, or professional, our series cater to your needs, ensuring uncompromising quality and cutting-edge

Processor	
Processor manufacturer *	AMD
Processor socket *	Socket AM5
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series
Supported processor sockets	Socket AM5

Memory	
Supported memory types *	DDR5-SDRAM
Number of memory slots *	2
Memory slots type	DIMM
Memory channels	Dual-channel
ECC compatibility	Non-ECC
Supported memory clock speeds	7600,7200,7000,6800,6666,6600,6400,6200,6000,5600,5200,4800,4400 MHz
Supported memory clock speed (max)	7600 MHz
Maximum internal memory *	128 GB
Unbuffered memory	✔
Maximum internal memory per slot	64 GB

Storage controllers	
Supported storage drive types	HDD & SSD
Supported storage drive interfaces *	M.2, PCI Express 4.0, SATA III
Number of HDDs supported	4
Number of storage drives supported	6
RAID support	✔
RAID levels	0, 1, 10

Graphics	
Parallel processing technology support *	Not supported
Maximum resolution	4096 x 2160 pixels
HDCP	✔
DirectX version	12.0

Internal I/O	
USB 2.0 connectors *	2

Rear panel I/O ports	
Microphone in	✔

Network	
Ethernet LAN	✔
Ethernet interface type	2.5 Gigabit Ethernet
LAN controller	Realtek RTL8125
Wi-Fi *	✘

Features	
Motherboard chipset *	AMD B840
Audio chip	Realtek ALC897
Audio output channels *	7.1 channels
Product colour	Dark brown
PC health monitoring	Fan, Temperature, Voltage, Water cooling
Component for *	PC
Motherboard form factor *	micro ATX
Motherboard chipset family *	AMD
Cooling type	Passive
Power source type	ATX
Windows operating systems supported	Windows 10 x64, Windows 11 x64

Expansion slots	
PCI Express x16 (Gen 3.x) slots	1
PCI Express x16 (Gen 4.x) slots	1
Number of M.2 (M) slots	2
1st M.2 largest key size	2580
1st M.2 highest PCI Express generation	4.0
2nd M.2 largest key size	2280
2nd M.2 highest PCI Express generation	3.0

Internal I/O	
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1
Number of SATA III connectors *	4
Front panel audio connector	✔
Front panel connector	✔
ATX Power connector (24-pin)	✔
CPU fan connector	✔
Number of CPU fan connectors	2
Number of chassis fan connectors	1
EPS power connector (8-pin)	✔
Number of EPS power connectors (8-pin)	1
TPM connector	✔
Number of water pump connectors	1
RGB LED pin header	✔
Number of RGB LED pin headers	3

Rear panel I/O ports	
USB 2.0 ports quantity *	4
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Ethernet LAN (RJ-45) ports *	1
PS/2 ports quantity	1
HDMI ports quantity *	1
HDMI version	2.1
Headphone outputs	1
Line-in	✔

BIOS	
BIOS type *	UEFI AMI
BIOS memory size	256 Mbit
ACPI version	5.0
Clear CMOS jumper	✔
Desktop Management Interface (DMI) version	2.7
System Management BIOS (SMBIOS) version	2.7

Logistics data	
Products per shipping (inner) case	1 pc(s)

Battery	
Battery weight	3 g
Lithium weight per battery	0.07 g
Number of battery cells	1
Battery technology	Lithium-Manganese Dioxide (LiMnO2)
Battery type	CR2032

Packaging data	
Package width	265 mm
Package depth	265 mm
Package height	54 mm
Package weight	1.03 kg

Weight & dimensions	
Width	244 mm
Depth	244 mm
Height	35 mm

Packaging content	
Batteries included	✔
Screws included	✔
Bundled software	Norton® Internet Security (OEM version) LAN bandwidth management software

Other features	
Weight	940 g

Technical details	
Warranty period	3 year(s)

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Catalog Object Cloud

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