

## GIGABYTE B840M D3HP Motherboard - AMD Ryzen 9000 CPUs, 8+2+2 Phases VRM, up to 8200MHz DDR5(O.C), 2xPCIe 4.0 M.2, 1GbE LAN, USB 3.2 Gen 2

**Brand :** GIGABYTE

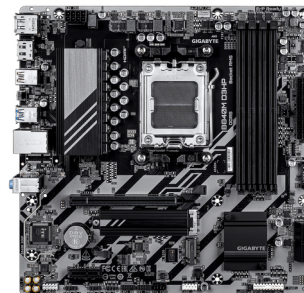
**Product code:** B840M D3HP

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- X3D Turbo Mode: Unleash new era gaming performance
  - DDR5 OC up to 8200MT/s
  - AMD Socket AM5: Supports AMD Ryzen 9000 / 8000 / 7000 Series Processors
  - Digital twin 8+2+2 phases VRM solution
  - Dual Channel DDR5: 4\*DIMMs with AMD EXPO Memory Module Support
  - EZ-Latch: PCIe and M.2 slots with Quick Release Design
  - Ultra-Fast Storage: 2\*M.2 slots, including PCIe 4.0 x4
  - Efficient Thermal: VRM Thermal Armor Advanced & M.2 Thermal Guard
  - Fast Networking: GbE LAN
  - Extended Connectivity: HDMI, 2\*Displayport
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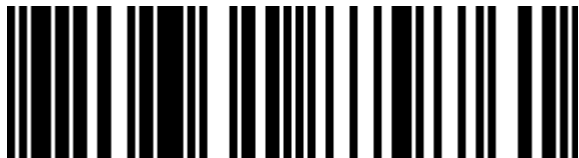
GIGABYTE B840M D3HP Motherboard - AMD Ryzen 9000 CPUs, 8+2+2 Phases VRM, up to 8200MHz DDR5(O.C), 2xPCIe 4.0 M.2, 1GbE LAN, USB 3.2 Gen 2:

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 technology.



| Processor                                |                                                                                     | Rear panel I/O ports                   |                                          |
|------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------|
| Processor manufacturer *                 | AMD                                                                                 | Line-in                                | ✓                                        |
| Processor socket *                       | Socket AM5                                                                          | Microphone in                          | ✓                                        |
| Compatible processor series *            | AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series                 | <b>Network</b>                         |                                          |
| Supported processor sockets              | Socket AM5                                                                          | Ethernet LAN                           | ✓                                        |
| <b>Memory</b>                            |                                                                                     | Ethernet interface type                | Gigabit Ethernet                         |
| Supported memory types *                 | DDR5-SDRAM                                                                          | LAN controller                         | Realtek RTL8111H                         |
| Number of memory slots *                 | 4                                                                                   | Wi-Fi *                                | ✗                                        |
| Memory slots type                        | DIMM                                                                                | <b>Features</b>                        |                                          |
| Memory channels                          | Dual-channel                                                                        | Motherboard chipset *                  | AMD B840                                 |
| ECC compatibility                        | Non-ECC                                                                             | Audio chip                             | Realtek ALC897                           |
| Supported memory clock speeds            | 8200,8000,7950,7900,7800,7600,7400,7200,7000,6800,6600,6400,6200,6000,5600,5800 MHz | Audio output channels *                | 7.1 channels                             |
| Supported memory clock speed (max)       | 8200 MHz                                                                            | Product colour                         | Dark brown                               |
| Maximum internal memory *                | 256 GB                                                                              | PC health monitoring                   | Fan, Temperature, Voltage, Water cooling |
| Unbuffered memory                        | ✓                                                                                   | Component for *                        | PC                                       |
| Maximum internal memory per slot         | 64 GB                                                                               | Motherboard form factor *              | micro ATX                                |
| <b>Storage controllers</b>               |                                                                                     | Motherboard chipset family *           | AMD                                      |
| Supported storage drive types            | HDD & SSD                                                                           | Cooling type                           | Passive                                  |
| Supported storage drive interfaces *     | M.2, PCI Express 4.0, SATA III                                                      | Power source type                      | ATX                                      |
| Number of HDDs supported                 | 4                                                                                   | Windows operating systems supported    | Windows 10 x64, Windows 11 x64           |
| Number of storage drives supported       | 6                                                                                   | <b>Expansion slots</b>                 |                                          |
| RAID support                             | ✓                                                                                   | PCI Express x1 (Gen 3.x) slots         | 1                                        |
| RAID levels                              | 0, 1, 10, 5                                                                         | PCI Express x16 (Gen 4.x) slots        | 1                                        |
| <b>Graphics</b>                          |                                                                                     | Number of M.2 (M) slots                | 2                                        |
| Parallel processing technology support * | Not supported                                                                       | 1st M.2 largest key size               | 2580                                     |
| Maximum resolution                       | 4096 x 2160 pixels                                                                  | 1st M.2 highest PCI Express generation | 4.0                                      |
| HDCP                                     | ✓                                                                                   |                                        |                                          |
| HDCP version                             | 2.3                                                                                 |                                        |                                          |
| DirectX version                          | 12.0                                                                                |                                        |                                          |

| Internal I/O                                      |     | Expansion slots                            |                                         |
|---------------------------------------------------|-----|--------------------------------------------|-----------------------------------------|
| USB 2.0 connectors *                              | 1   | 2nd M.2 largest key size                   | 2280                                    |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors *            | 2   | 2nd M.2 highest PCI Express generation     | 4.0                                     |
| Number of SATA III connectors *                   | 4   | <b>BIOS</b>                                |                                         |
| Front panel audio connector                       | ✓   | BIOS type *                                | UEFI AMI                                |
| Front panel connector                             | ✓   | BIOS memory size                           | 256 Mbit                                |
| ATX Power connector (24-pin)                      | ✓   | ACPI version                               | 5.0                                     |
| CPU fan connector                                 | ✓   | Clear CMOS jumper                          | ✓                                       |
| Number of CPU fan connectors                      | 1   | Desktop Management Interface (DMI) version | 2.7                                     |
| Number of chassis fan connectors                  | 2   | System Management BIOS (SMBIOS) version    | 2.7                                     |
| EPS power connector (8-pin)                       | ✓   | <b>Logistics data</b>                      |                                         |
| Number of EPS power connectors (8-pin)            | 1   | Country of origin                          | China                                   |
| TPM connector                                     | ✓   | Products per shipping (inner) case         | 1 pc(s)                                 |
| RGB LED pin header                                | ✓   | <b>Battery</b>                             |                                         |
| Number of RGB LED pin headers                     | 4   | Battery weight                             | 3 g                                     |
| Rear panel I/O ports                              |     | Lithium weight per battery                 | 0.07 g                                  |
| USB 2.0 ports quantity *                          | 3   | Number of battery cells                    | 1                                       |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 1   | Battery capacity                           | 220 mAh                                 |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity * | 1   | Battery technology                         | Lithium-Manganese Dioxide (LiMnO2)      |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 1   | Battery type                               | CR2032                                  |
| Ethernet LAN (RJ-45) ports *                      | 1   | <b>Packaging data</b>                      |                                         |
| HDMI ports quantity *                             | 1   | Package width                              | 265 mm                                  |
| HDMI version                                      | 2.1 | Package depth                              | 265 mm                                  |
| DisplayPorts quantity                             | 2   | Package height                             | 54 mm                                   |
| DisplayPort version                               | 1.4 | Package weight                             | 1.04 kg                                 |
| Headphone outputs                                 | 1   | <b>Weight &amp; dimensions</b>             |                                         |
|                                                   |     | Width                                      | 244 mm                                  |
|                                                   |     | Depth                                      | 244 mm                                  |
|                                                   |     | Height                                     | 35 mm                                   |
|                                                   |     | <b>Packaging content</b>                   |                                         |
|                                                   |     | Batteries included                         | ✓                                       |
|                                                   |     | Screws included                            | ✓                                       |
|                                                   |     | Bundled software                           | Norton® Internet Security (OEM version) |
|                                                   |     | <b>Other features</b>                      |                                         |
|                                                   |     | Weight                                     | 960 g                                   |
|                                                   |     | <b>Technical details</b>                   |                                         |
|                                                   |     | Warranty period                            | 3 year(s)                               |



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### Catalog Object Cloud



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