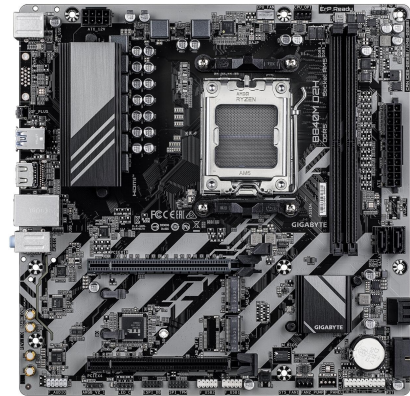


GA-B840M-D2H

Gigabyte B840M D2h AMD Ryzen 7000 / 8000 / 9000 Series Socket AM5 mATX Motherboard

Product Overview

Gigabyte B840M D2h AMD Ryzen 7000 / 8000 / 9000 Series Socket AM5 mATX Motherboard, AMD B840 Chipset, 2x DDR5 DIMM Memory slots, 1x HDMI Port, Realtek 2.5GbE LAN Chip, 1x PCI Express x16 slot support PCI-e 4.0 x16 mode, 1x PCI Express x16 slot supporting PCI-e 3.0 and running at x4, 2x M.2 connector supports up to PCI-e 4.0 x4/x2, 4x SATA 6Gb/s connectors, USB 3.2 Gen 1 Ports, USB 2.0/1.1 Ports, 1x PS/2 Keyboard/Mouse Port, 1x Q-Flash Plus Button, 3x audio jacks



Specifications

Overview Summary:

The Gigabyte B840M D2H AMD Ryzen motherboard is a compact yet powerful choice for South African PC builders seeking high-performance and future-ready features. Compatible with AMD Ryzen 7000, 8000, and 9000 series processors, this mATX motherboard supports DDR5 memory, PCIe 4.0 graphics, and fast M.2 storage options. Its 2.5GbE LAN port ensures low-latency networking, while X3D Turbo Mode and AI overclocking deliver enhanced gaming and multitasking performance. Shop now to upgrade your PC with a motherboard built for speed and reliability.

Buy the Gigabyte B840M D2H motherboard today to enjoy seamless installation, robust connectivity, and long-lasting performance. Perfect for gamers, content creators, and tech enthusiasts looking for a versatile mATX solution.

Performance tier:High-performance

Uses:Gaming, content creation, PC building, multitasking, high-speed networking

Overview:

Gigabyte B840M D2H AMD Ryzen Motherboard: High-Performance mATX Solution

The Gigabyte B840M D2H is a compact yet powerful motherboard designed for AMD Ryzen 7000, 8000, and 9000 series processors. Built with the AMD B840 chipset, it combines reliable durability, advanced connectivity, and gaming-focused optimizations in a micro-ATX form factor. This motherboard supports DDR5 memory, PCIe 4.0 hardware, and high-speed networking, making it a versatile choice for gamers, content creators, and PC enthusiasts.

Description:

The B840M D2H motherboard delivers robust gaming performance with support for AMD Socket AM5 processors and dual-channel DDR5 memory. It features multiple PCIe slots including PCIe 4.0 x16 and M.2 storage options, a 2.5GbE LAN port for high-speed networking, and comprehensive thermal controls with Smart Fan 6. One-click performance tuning via X3D Turbo Mode and AI-driven BIOS optimization ensures seamless gaming and overclocking capabilities. Its user-friendly design simplifies assembly and system management while offering durable components for long-lasting reliability.

Features:

Performance and Gaming Enhancements

- X3D Turbo Mode boosts gaming FPS and overall system performance with one-click activation
- Supports AMD Ryzen 9000 X3D and non-X3D processors for enhanced gameplay
- AI Overclocking automatically tunes your CPU for peak performance
- Dual-channel DDR5 memory support for higher bandwidth and smoother multitasking

Advanced Power and Thermal Management

- Digital VRM design ensures stable and high-powered CPU performance
- Smart Fan 6 allows quiet, customized cooling for a variety of components
- Durable components provide long-lasting performance and system stability

High-Speed Storage and Expansion

- 2 x M.2 slots, including PCIe 4.0 x4 support for ultra-fast SSDs
- 1 x PCIe 4.0 x16 slot for graphics cards and PCIe 3.0 x4 expansion slot
- 4 x SATA 6Gb/s connectors for additional storage drives

Future-Ready Connectivity

- 2.5GbE LAN port enables fast networking with minimal latency
- USB 3.2 Gen 1 and USB 2.0 ports for fast data transfers and peripheral support
- HDMI output and PS/2 keyboard/mouse port for legacy device compatibility

High-Fidelity Audio

- Equipped with high-end audio capacitors and audio noise guard for clear sound
- Supports immersive audio experiences for gaming, streaming, and media

DIY-Friendly Design

- EZ-Latch PCIe slot simplifies graphics card installation and removal
- EZ Debug Zone LEDs for easy troubleshooting
- User-centered BIOS with Q-Flash Auto Scan and UC BIOS interface
- GIGABYTE Control Center software for unified hardware and RGB management

Durable and Optimized Build

- Digital 5+2+2 phase VRM power delivery ensures consistent performance
- Infinite memory compatibility and DDR5 overclocking up to 7600MT/s
- AI-driven PCB design and HyperTune BIOS for advanced optimization

Key Benefits at a Glance:

- Unlock superior gaming performance with X3D Turbo Mode
- AMD Socket AM5 support for Ryzen 9000 / 8000 / 7000 series
- Dual-channel DDR5 memory with EXPO support
- Fast storage with dual M.2 slots, including PCIe 4.0
- High-speed 2.5GbE networking
- Simplified assembly with EZ-Latch PCIe slot
- Customizable RGB lighting with RGB Fusion

Specifications:

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Specifications	
Product Code	GA-B840M-D2H
CPU	AMD Socket AM5, support for:
	AMD Ryzen 9000 Series Processors/
	AMD Ryzen 8000 Series Processors/
	AMD Ryzen 7000 Series Processors
Chipset	AMD B840
Memory	Support for DDR5 7600(O.C.) / 7200(OC) / 7000(OC) / 6800(OC) / 6666(OC) / 6600(OC) / 6400(OC) / 6200(OC) / 6000(OC) / 5600(OC) / 5200 / 4800 / 4400 MT / s memory modules
	2 x DDR5 DIMM sockets supporting up to 128 GB (64 GB single DIMM capacity) of system memory
	Dual channel memory architecture
	Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules
	Support for AMD EXtended Profiles for Overclocking (AMD EXPO) and Extreme Memory Profile (XMP) memory modules
	(The CPU and memory configuration may affect the supported memory types, data rate (speed), and number of DRAM modules, please refer to "Memory Support List" on GIGABYTE's website for more information.)
Onboard Graphics	Integrated Graphics Processor with AMD Radeon Graphics support:
	- 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz
	* Support for HDMI 2.1 version, HDCP 2.3, and HDR.
	** Support for native HDMI 2.1 TMDS compatible ports.
	(Graphics specifications may vary depending on CPU support.)

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Product Specification Sheet

Audio	Realtek Audio CODEC
	High Definition Audio
	2/4/5.1/7.1-channel
	* You can change the functionality of an audio jack using the audio software. To configure 7.1-channel audio, access the audio software for audio settings.
LAN	Realtek 2.5GbE LAN chip (2.5 Gbps/1 Gbps/100 Mbps)
Expansion Slots	1 x PCI Express x16 slot (PCIEX16), integrated in the CPU:
	AMD Ryzen 9000/7000 Series Processors support PCIe 4.0 x16 mode
	AMD Ryzen 8000 Series-Phoenix 1 Processors support PCIe 4.0 x8 mode
	AMD Ryzen 8000 Series-Phoenix 2 Processors support PCIe 4.0 x4 mode
	* The PCIEX16 slot can only support a graphics card or an NVMe SSD. If only one graphics card is to be installed, be sure to install it in the PCIEX16 slot.
	Chipset:
	- 1 x PCI Express x16 slot, supporting PCIe 3.0 and running at x4 (PCIEX4)
Storage Interface	1 x M.2 connector (M2A_CPU), integrated in the CPU, supporting Socket 3, M key, type 2580/2280 SSDs:
	AMD Ryzen 9000/7000 Series Processors support PCIe 4.0 x4/x2 SSDs
	AMD Ryzen 8000 Series-Phoenix 1 Processors support PCIe 4.0 x4/x2 SSDs
	AMD Ryzen 8000 Series-Phoenix 2 Processors support PCIe 4.0 x4/x2 SSDs
	1 x M.2 connector (M2C_SB), integrated in the Chipset, supporting Socket 3, M key, type 2280 PCIe 3.0 x2 SSDs
	4 x SATA 6Gb/s connectors
	RAID 0, RAID 1, RAID 5, and RAID 10 support for NVMe SSD storage devices
	* RAID 5 is only available on AMD Ryzen 9000 Series Processors.
	RAID 0, RAID 1, and RAID 10 support for SATA storage devices
USB	CPU:
	- 2 x USB 3.2 Gen 1 ports on the back panel
	CPU+USB 2.0 Hub:
	- 4 x USB 2.0/1.1 ports on the back panel
	Chipset:
	- 2 x USB 3.2 Gen 1 ports available through the internal USB header
	- 4 x USB 2.0/1.1 ports available through the internal USB headers

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Product Specification Sheet

Internal I/O Connectors	1 x 24-pin ATX main power connector
	1 x 8-pin ATX 12V power connector
	1 x CPU fan header
	1 x CPU fan/water cooling pump header
	1 x system fan header
	2 x addressable RGB Gen2 LED strip headers
	1 x RGB LED strip header
	4 x SATA 6Gb/s connectors
	2 x M.2 Socket 3 connectors
	1 x front panel header
	1 x front panel audio header
	1 x USB 3.2 Gen 1 header
	2 x USB 2.0/1.1 headers
	1 x Trusted Platform Module header (For the GC-TPM2.0 SPI/GC-TPM2.0 SPI 2.0/GC-TPM2.0 SPI V2 module only)
	1 x reset jumper
	1 x Clear CMOS jumper
Back Panel Connectors	1 x PS/2 keyboard/mouse port
	2 x USB 3.2 Gen 1 ports
	4 x USB 2.0/1.1 ports
	1 x HDMI port
	1 x Q-Flash Plus button
	1 x RJ-45 port
	3 x audio jacks
	* Actual support may vary by CPU.
I/O Controller	iTE I/O Controller Chip
H/W Monitoring	Voltage detection
	Temperature detection
	Fan speed detection
	Water cooling flow rate detection
	Fan fail warning
	Fan speed control
	* Whether the fan (pump) speed control function is supported will depend on the fan (pump) you install.
BIOS	1 x 256 Mbit flash
	Use of licensed AMI UEFI BIOS
	PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0

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Product Specification Sheet

Unique Features	Support for GIGABYTE Control Center (GCC)
	* Available applications in GCC may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications.
	Support for Q-Flash
	Support for Q-Flash Plus
	Support for Smart Backup
Bundled Software	Norton Internet Security (OEM version)
	LAN bandwidth management software
Operating System	Support for Windows 11 64-bit
	Support for Windows 10 64-bit
Form Factor	Micro ATX Form Factor , 24.4cm x 24.4cm

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:

<https://www.comx-computers.co.za/GA-B840M-D2H-Gigabyte-B840M-D2h-AMD-Ryzen-7000-8000-Buy-p-328862.php>

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