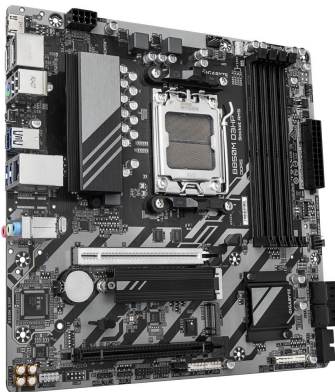


GA-B850M-D3HP

Gigabyte AMD B850M D3HPT AMD Ryzen 7000 / 8000 / 9000 Series Socket AM5 mATX Motherboard

Product Overview

Gigabyte AMD B850M D3HPT AMD Ryzen 7000 / 8000 / 9000 Series Socket AM5 mATX Motherboard, AMD B850 Chipset, 4 x DDR5 DIMM Memory slots, 1x HDMI Port, 2 x DisplayPorts, Realtek GbE LAN Chip, 1x PCI Express x16 slot (PCIEX16), 1x PCI Express x16 slot supporting PCI-e 3.0 and running at x4, 2x M.2 sockets supports up to PCI-e 5.0 x4/x2 SSDs, 4x SATA 6Gb/s connectors, USB Type-C Port on the back panel with USB 3.2 Gen 1 support, 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

Features:

X3D Turbo Mode

Unleash New Era Gaming Performance with One-Click Activation.

X3D Turbo Mode's unique optimization parameters allow even Ryzen 9000 X3D gaming Performance enhance & Ryzen 9000 non-X3D processors to achieve similar gaming performance levels as their Ryzen X3D counterparts. Experience smoother gameplay, higher frame rates, and reduced latency with GIGABYTE's BIOS innovation- X3D Turbo Mode.

AI-Driven PCB Design

Redefining PCB Design with AI

HyperTune BIOS

AI-Driven Advanced BIOS Optimization Technology

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Product Specification Sheet

Durable Performance

GIGABYTE Ultra Durable motherboards built with optimal components inside out provide the prime performance and timeless platform.

Digital VRM Design

Delivers consistent, high-powered performance to elevate your overclocking to the next level.

Infinite Memory Performance

GIGABYTE UD motherboards boost DDR5 memory performance and offer top-notch compatibility using various advanced methods.

Comprehensive Thermal

UD motherboards come with advanced full-metal thermal design and durable heatsinks to keep your system cool and efficient.

M.2 Thermal Guard

The M.2 Thermal Guard prevents throttling and bottlenecks from high speed M.2 SSDs as it helps to dissipate heat before it becomes an issue.

Future Connectivity

The ultimate connectivity with blazing data-transfer speeds through the next generation network and storage.

GbE LAN with Bandwidth Management

GbE LAN features a network bandwidth management application which helps to improve network latency and maintain low ping times to deliver better responsiveness in crowded LAN environments.

PCIe 5.0 / 4.0 Hardware Design

Featuring PCIe 5.0 x16 slot and PCIe 5.0 / 4.0 M.2 slot support, GIGABYTE Motherboards are ready to work with the PCIe 5.0 / 4.0 devices to provide the superior performance.

Easy Friendly

Innovative and intuitive hardware, software, and BIOS interface design to create your personal style.

EZ Debug Zone

Centralized debug LEDs and control buttons provide a handy and organized troubleshooting process when building a new computer.

EZ-Latch Designs

User-friendly designs simplifying the assembly process.

PCIe EZ-Latch

Easy ejection with single click for graphics cards

UC BIOS

Restructured with user-centered and intuitive performance adjustment mechanisms.

Q-FLASH Auto Scan

The new Auto Scan function features when using USB flashdrive during Q-Flash, the BIOS file will be auto scanned instead of searching manually.

Specifications:

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Specifications	
Product Code	GA-B850M-D3HP

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Product Specification Sheet

CPU	AMD Socket AM5, support for:
	AMD Ryzen 9000 Series Processors/
	AMD Ryzen 8000 Series Processors/
	AMD Ryzen 7000 Series Processors
Chipset	AMD B850
Memory	Support for DDR5 8200(OC) / 8000(OC) / 7800(OC) / 7600(OC) / 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
	4 x DDR5 DIMM sockets supporting up to 256 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.
	- 2 x DisplayPorts, supporting a maximum resolution of 3840x2160@144 Hz
	* Support for DisplayPort 1.4 version.
	(Graphics specifications may vary depending on CPU support.)
	Support for up to triple-display at the same time
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 GbE LAN chip (1 Gbps/100 Mbps/10 Mbps)
Expansion Slots	1 x PCI Express x16 slot (PCIEX16), integrated in the CPU:
	AMD Ryzen 9000/7000 Series Processors support PCIe 5.0 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 5.0 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 (M2B_CPU), integrated in the CPU, supporting Socket 3, M key, type 22110/2280 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 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:
	- 1 x USB Type-C port on the back panel, with USB 3.2 Gen 1 support
	- 1 x USB 3.2 Gen 1 port on the back panel
	- 1 x USB 2.0/1.1 port on the back panel
	Chipset:
	- 1 x USB Type-C port with USB 3.2 Gen 1 support, available through the internal USB header
	- 4 x USB 3.2 Gen 1 ports (2 ports on the back panel, 2 ports available through the internal USB header)
	- 5 x USB 2.0/1.1 ports (1 port on the back panel, 4 ports available through the internal USB headers)

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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
	1 x system fan/water cooling pump header
	2 x addressable RGB Gen2 LED strip headers
	1 x RGB LED strip header
	2 x M.2 Socket 3 connectors
	4 x SATA 6Gb/s connectors
	1 x front panel header
	1 x front panel audio header
	1 x USB Type-C header, with USB 3.2 Gen 1 support
	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 HDMI port (Note)
	2 x DisplayPorts (Note)
	1 x PS/2 keyboard/mouse port
	1 x Q-Flash Plus button
	1 x USB Type-C port, with USB 3.2 Gen 1 support
	3 x USB 3.2 Gen 1 ports
	2 x USB 2.0/1.1 ports
	1 x RJ-45 port
	3 x audio jacks
	(Note) Actual support may vary by CPU.
I/O Controller	iTE I/O Controller Chip

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Product Specification Sheet

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
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.co.za/GA-B850M-D3HP-Gigabyte-AMD-B850M-D3HPT-AMD-Ryzen-7000-Buy-p-319194.php>

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