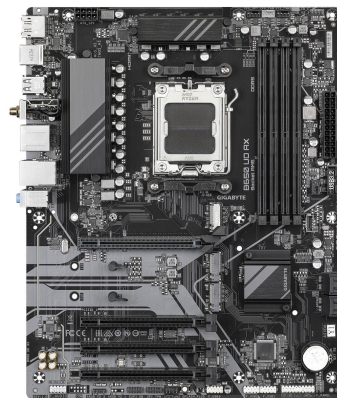


GA-B650-UD-AX

Gigabyte B650 Eagle UD AX AMD Ryzen 7000 / 8000 / 9000 Series Socket AM5 ATX Motherboard

Product Overview

Gigabyte B650 Eagle UD AX AMD Ryzen 7000 / 8000 / 9000 Series Socket AM5 ATX Motherboard, AMD B650 Chipset, DDR5 DIMM Memory slots, 1 x DisplayPort, 1x HDMI Port, Realtek RTL8111h GbE LAN Chip, WiFi 6, Bluetooth 5.0, 1x PCI Express x16 slot support PCI-e 4.0 x16 mode, 2x PCI Express x16 slots supporting PCI-e 3.0 and running at x1, 1x PCI Express x16 slot supporting PCI-e 3.0 and running at x1, 3x M.2 connector support PCI-e 5.0 x4/x2 SSDs, 4x SATA 6Gb/s connectors, USB 3.2 Gen 2 Type-A Ports, USB Type-C Port with USB 3.2 Gen 1 support, USB 2.0/1.1 Ports, 1x Q-Flash Plus Button, 1x PS/2 Keyboard/Mouse Port, 3x audio jacks



Specifications

Overview Summary:

The Gigabyte B650 Eagle UD AX motherboard is a top-tier choice for South African buyers looking to build a powerful AMD Ryzen system. Featuring the latest Socket AM5 support, DDR5 memory slots, PCIe 5.0 storage, and Wi-Fi 6 connectivity, it ensures ultra-fast performance and stable operation for gaming, content creation, and daily computing. Shop now to upgrade your system with cutting-edge hardware and reliable performance.

Designed for ease of use, this motherboard includes Q-Flash Plus for BIOS updates without installing a CPU, memory, or GPU, along with EZ-Latch technology for quick GPU installation. Multiple M.2 and SATA storage options, advanced fan

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management, and flexible expansion slots make it a versatile foundation for any high-performance build. Buy now to enjoy seamless connectivity and robust computing power.

Performance tier:High-end

Uses:Gaming, content creation, streaming, high-performance computing, PC building

Overview:

Gigabyte B650 Eagle UD AX Motherboard for AMD Ryzen 7000/8000/9000 Series

The Gigabyte B650 Eagle UD AX motherboard is designed for high-performance AMD Ryzen builds. With support for the latest Socket AM5 processors, DDR5 memory, PCIe 5.0 storage, and Wi-Fi 6 connectivity, this ATX motherboard combines advanced hardware with intuitive software to create a reliable foundation for gaming, content creation, and everyday computing.

Description:

This motherboard offers lightning-fast performance with DDR5 memory and multiple M.2 PCIe slots, superior connectivity with Wi-Fi 6 and USB Type-C, and advanced cooling management through Smart Fan 6. Its EZ-Latch and Q-Flash Plus technologies simplify hardware upgrades and BIOS updates, making it ideal for both beginners and enthusiasts.

Features:

Processor Compatibility and Power Design

- Supports AMD Ryzen 7000, 8000, and 9000 Series processors via Socket AM5
- 6+2+2 digital VRM design ensures stable power delivery for high-demand workloads
- 8 solid-pin CPU power connector and 24-pin ATX power support

Memory and Storage Performance

- Dual-channel DDR5 support across 4 DIMM slots
- Compatible with AMD EXPO and Intel XMP memory profiles
- Three ultra-fast M.2 slots: 1 PCIe 5.0 and 2 PCIe 4.0 for high-speed NVMe SSDs
- Four SATA 6Gb/s ports for additional storage options

Graphics and Expansion Slots

- One PCIe x16 slot supporting PCIe 4.0 x16 mode with EZ-Latch for easy GPU installation
- Two additional PCIe x16 slots running at PCIe 3.0 x1 mode
- One PCIe x16 slot supporting PCIe 3.0 x1 for flexible expansion

Connectivity Options

- Display output via 1 DisplayPort and 1 HDMI port
- USB 3.2 Gen 2 Type-A, USB 3.2 Gen 1 Type-C, and USB 2.0/1.1 ports
- Gigabit Ethernet with Realtek RTL8111h and Wi-Fi 6 (802.11ax)
- Bluetooth 5.0 for wireless device support

Audio and Networking

- 8-channel HD audio with high-end capacitors and Audio Noise Guard for immersive sound
- Integrated Wi-Fi 6 and GbE LAN deliver fast, stable networking for gaming and streaming

Advanced Cooling and Fan Management

- Smart Fan 6 supports PWM/DC fans and water pumps with high-current protection
- Dual fan curve modes (Slope and Stair) and Fan Stop function

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- Multiple temperature sensors allow precise fan speed adjustment
- BIOS UI for Smart Fan 6 offers enhanced fan curve control, manual input, and profile saving

Easy BIOS Updates and System Customization

- Q-Flash Plus enables BIOS updates without CPU, memory, or GPU installed
- Simple 3-step process for updating BIOS using a USB drive
- User-friendly BIOS interface with Quick Access slots and PerfDrive optimization
- GIGABYTE Control Center software offers centralized, modular control for all supported devices

Lighting and Aesthetic Customization

- RGB Fusion support with 1 addressable LED header and 1 RGB LED header
- Customize lighting effects to match your personal style

Convenient and User-Friendly Design

- EZ-Latch system makes GPU installation and removal easy
- Intuitive hardware, software, and BIOS interface design for effortless PC building

Specifications:

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Specifications	
Product Code	GA-B650-UD-AX
CPU	AMD Socket AM5, support for:
	AMD Ryzen 7000 / Ryzen 8000 / Ryzen 9000 Series Processors
Chipset	AMD B650 Chipset
Memory	Support for DDR5 8000(OC) / 7800(OC) / 7600(OC) / 7200(OC) / 7000(OC) / 6800(OC) / 6600(OC) / 6400(OC) / 6200(OC) / 6000(OC) / 5600(OC) / 5200 / 4800 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.)

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Onboard Graphics	Integrated Graphics Processor:
	- 1 x DisplayPort, supporting a maximum resolution of 3840x2160@144 Hz
	* Support for DisplayPort 1.4 version.
	- 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz
	* Support for HDMI 2.1 version and HDCP 2.3.
	** Support for native HDMI 2.1 TMDS compatible ports.
	(Graphics specifications may vary depending on CPU support.)
Audio	Realtek Audio CODEC
	ALC897
	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 RTL8111H GbE LAN chip (1 Gbps/100 Mbps/10 Mbps)
Wireless Communication module	Realtek RTL8851 WIFI 6 module
	- WIFI 802.11a, b, g, n, ac, supporting 2.4/5 GHz Dual-Band
	- BLUETOOTH 5.0
	- Support for 11ac wireless standard
	(Actual data rate may vary depending on environment and equipment.)
Expansion Slots	1 x PCI Express x16 slot (PCIEX16), integrated in the CPU:
	- AMD Ryzen 7000 Series Processors/ Ryzen 9000 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.
	2 x PCI Express x16 slots (PCIEX1_1/PCIEX1_2), integrated in the CPU, supporting PCIe 3.0 and running at x1
	* The PCIEX1_1 and PCIEX1_2 slots become unavailable when an AMD Ryzen 8000 Series-Phoenix 2 processor is used.
	1 x PCI Express x16 slot (PCIEX1_3), integrated in the Chipset, supporting PCIe 3.0 and running at x1

Storage Interface	1 x M.2 connector (M2A_CPU), integrated in the CPU, supporting Socket 3, M key, type 25110/22110/2580/2280 SSDs:
	- AMD Ryzen 7000 Series Processors/ Ryzen 9000 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 (M2P_CPU), integrated in the CPU, supporting Socket 3, M key, type 22110/2280 SSDs:
	- AMD Ryzen 7000 Series Processors/ Ryzen 9000 Series Processors support PCIe 4.0 x2 SSDs
	- AMD Ryzen 8000 Series-Phoenix 1 Processors support PCIe 4.0 x2 SSDs
	- AMD Ryzen 8000 Series-Phoenix 2 Processors support PCIe 4.0 x2 SSDs
	1 x M.2 connector (M2C_SB), integrated in the Chipset, supporting Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSD support)
	4 x SATA 6Gb/s connectors
	RAID 0, RAID 1, and RAID 10 support for NVMe SSD storage devices
	RAID 0, RAID 1, and RAID 10 support for SATA storage devices
USB	CPU:
	- 2 x USB 3.2 Gen 2 Type-A ports (red) on the back panel
	- 1 x USB Type-C port on the back panel, with USB 3.2 Gen 1 support
	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
	- 1 x USB Type-C port with USB 3.2 Gen 1 support, available through the internal USB header
	- 4 x USB 2.0/1.1 ports (2 ports on the back panel, 2 ports available through the internal USB header)
	Chipset+USB 2.0 Hub:
	- 4 x USB 2.0/1.1 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
	2 x system fan headers
	1 x system fan/water cooling pump header
	1 x addressable RGB Gen2 LED strip header
	1 x RGB LED strip header
	3 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
	3 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 Q-Flash Plus button
	1 x Clear CMOS jumper
Back Panel Connectors	1 x DisplayPort
	1 x HDMI port
	1 x PS/2 keyboard/mouse port
	2 x SMA antenna connectors (1T1R)
	1 x USB Type-C port, with USB 3.2 Gen 1 support
	2 x USB 3.2 Gen 2 Type-A ports (red)
	6 x USB 2.0/1.1 ports
	1 x RJ-45 port
	3 x audio jacks
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.

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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
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	ATX Form Factor , 30.5cm 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-B650-UD-AX-Gigabyte-B650-Eagle-UD-AX-AMD-Ryzen-7000-Buy-p-328863.php>

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