

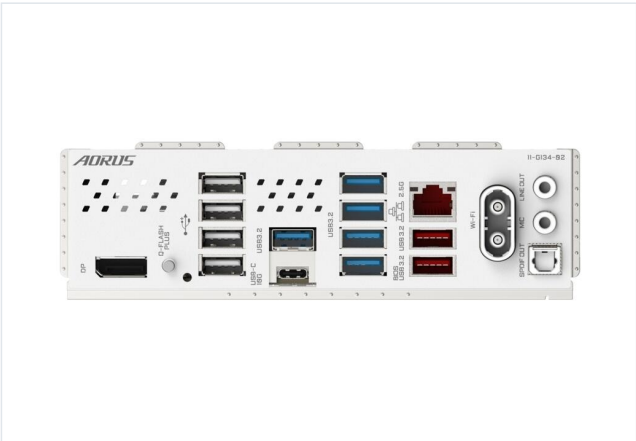
GA-B850-A-ELITE-WF7-ICE

Gigabyte B850-A Elite WiFi 7 ICE AMD Ryzen 7000 / 8000 / 9000 Series Socket AM5 ATX Motherboard

Product Overview

Gigabyte B850-A Elite WiFi 7 ICE AMD Ryzen 7000 / 8000 / 9000 Series Socket AM5 ATX Motherboard, AMD B850 Chipset, 4x DDR5 DIMM Memory slots, 1x DisplayPort, 1x front HDMI Port, Realtek 2.5GbE LAN Chip, Realtek Wi-Fi 7, Bluetooth 5.4, 1x PCI Express x16 slot, 2x PCI Express x16 slots supporting PCI-e 3.0 and running at x1, 3x M.2 connector supports up to PCI-e 5.0 x4/x2 SSD, 4x SATA 6Gb/s connectors, USB 3.2 Gen 2 Type-A Ports, USB 2.0/1.1 Ports, USB Type-C Port with USB 3.2 Gen 2x2 support, USB 3.2 Gen 1 Ports, 1x Q-Flash Plus Button, 2x audio jacks, 1x Optical S/PDIF out connector





Specifications

Overview:

B850 AORUS ELITE WIFI7

- 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 14+2+2 phases VRM solution
- Dual Channel DDR5 : 4*DIMMs with AMD EXPO Memory Module Support
- WIFI EZ-Plug : Quick and easy design for Wi-Fi antenna installation
- EZ-Latch Plus : PCIe and M.2 slots with Quick Release & Screwless Design
- EZ-Latch Click : M.2 heatsinks with screwless design
- Sensor Panel Link : Onboard video port for hassle-free in-chassis panel setup
- Friendly UI : Multi-Theme, AIO Fan Control, and Q-Flash Auto Scan in BIOS and SW.
- Ultra-Fast Storage : 3*M.2 slots, including PCIe 5.0 x4
- Efficient Thermal : VRM Thermal Armor Advanced & M.2 Thermal Guard Ext.
- Fast Networking : 2.5GbE LAN & Wi-Fi 7 with directional Ultra-high gain antenna
- Extended Connectivity : HDMI, Displayport
- PCIe UD Slot : PCIe 5.0 x16 slots with 10X strength for graphics card & Better Heat

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.

AORUS AI SNATCH

Unleash Ultimate Performance with One-Click Activation.

AI-Driven PCB Design

Redefining PCB Design with AI

HyperTune BIOS

AI-Driven Advanced BIOS Optimization Technology

Infinite Memory Performance

Elite Gaming motherboards boost DDR5 memory performance and offer top-notch compatibility using various advanced

methods.

Steady Power

Elite Series with steady power keeps your AI operation smooth.

Digital Twin VRM Design

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

Comprehensive Thermal

Advanced full-metal thermal design and durable heatsinks to keep your system cool and efficient

Smart Fan 6

Cool. Quiet. Customized.

Hassle-free Assembly

Our cutting-edge motherboard is designed for the ultimate DIY experience. Creating your own PC becomes a delightful and smooth process.

WIFI EZ-Plug

The WIFI EZ-Plug design integrates Wi-Fi antenna plugs into one adapter, EZ to install.

EZ-Latch Designs

User-friendly designs simplifying the assembly process.

M.2 EZ-Latch Click

screwless installation for M.2 heatsink

Future Connectivity

Enable the ultimate connection experience with blazing data-transfer speeds through the next generation network, storage, and Wi-Fi connectivity.

- 2.5GbE LAN
- Wi-Fi 7

Born from Ultra Durable

Technology embodies our commitment to excellence, providing gamers with a platform that's not only powerful but also built for longevity and reliability. Elite series motherboards are engineered to endure and excel.

PCIe UD Slot

GIGABYTE's one-piece stainless-steel shielding design reinforces the PCIe Slots, providing the extra strength required to support heavy graphics cards.

UD Power Connector

Our innovative UD Power Connector design enhances power conductivity and thermal dissipation.

Solid Pins

Delivers superior conductivity and signal transmission and reduces metal wear from repeated connections.

Specifications:

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Specifications	
Product Code	GA-B850-A-ELITE-WF7-ICE

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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(O.C) / 8000(O.C) / 7950(O.C) / 7900(O.C) / 7800(O.C) / 7600(O.C.) / 7400(O.C.) / 7200(O.C.) / 7000(O.C.) / 6800(O.C.) / 6600(O.C.) / 6400(O.C) / 6200(O.C) / 6000(O.C) / 5800(O.C) / 5600(O.C) / 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 DisplayPort, supporting a maximum resolution of 3840x2160@144 Hz
	* Support for DisplayPort 1.4 version and HDR.
	- 1 x Front HDMI port, supporting a maximum resolution of 1920x1080@30 Hz
	* Support for HDMI 1.4 version
	(Graphics specifications may vary depending on CPU support.)
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.
	Support for S/PDIF Out
LAN	Realtek 2.5GbE LAN chip (2.5 Gbps/1 Gbps/100 Mbps)
Wireless Communication module	Realtek Wi-Fi 7 RTL8922AE
	- 802.11a, b, g, n, ac, ax, be, supporting 2.4/5/6 GHz carrier frequency bands
	- BLUETOOTH 5.4
	- Support for 11be 160MHz wireless standard
	(Actual data rate may vary depending on environment and equipment.)
	* Wi-Fi 7 features require Windows 11 SV3 to function properly. (There is no support driver for Windows 10.)
	** Wi-Fi 7 channels on 6 GHz band availability depends on individual country's regulations

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Product Specification Sheet

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:
	- 2 x PCI Express x16 slots, supporting PCIe 3.0 and running at x1(PCIEX1_1, PCIEX1_2)
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 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 25110/22110/2580/2280 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 x2 SSDs
	1 x M.2 connector (M2C_SB), integrated in the Chipset, supporting Socket 3, M key, type 25110/22110/2580/2280 PCIe 4.0 x4/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 2 support
	- 2 x USB 3.2 Gen 2 Type-A ports (red) on the back panel
	CPU+USB 2.0 Hub:
	- 4 x USB 2.0/1.1 ports on the back panel
	Chipset:
	- 1 x USB Type-C port with USB 3.2 Gen 2x2 support, available through the internal USB header
	- 3 x USB 3.2 Gen 1 ports (1 port on the back panel, 2 ports available through the internal USB header)
	- 4 x USB 2.0/1.1 ports available through the internal USB headers
	Chipset+USB 3.2 Gen 1 Hub:
	- 4 x USB 3.2 Gen 1 ports on the back panel

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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 4-pin ATX 12V power connector
	1 x CPU fan header
	1 x CPU fan/water cooling pump header
	3 x system fan headers
	1 x system fan/water cooling pump header
	3 x addressable RGB Gen2 LED strip headers
	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 2x2 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 HDMI port (Note)
	1 x power button
	1 x reset button
	1 x reset jumper
	1 x Clear CMOS jumper
	(Note) Actual support may vary by CPU.
Back Panel Connectors	1 x DisplayPort (Note)
	1 x Q-Flash Plus button
	4 x USB 2.0/1.1 ports
	1 x USB Type-C port, with USB 3.2 Gen 2 support
	5 x USB 3.2 Gen 1 ports
	1 x RJ-45 port
	2 x USB 3.2 Gen 2 Type-A ports (red)
	2 x antenna connectors (2T2R)
	2 x audio jacks
	1 x optical S/PDIF Out connector
	(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
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.co.za/GA-B850-A-ELITE-WF7-ICE-Gigabyte-B850-A-Elite-WiFi-Buy-p-319193.php>

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