GA-Z890-AORUS ELITE-WIFI7

Gigabyte Z890 Aorus Elite WiFi 7 Intel Core Ultra Socket LGA 1851 ATX Motherboard

Product Overview

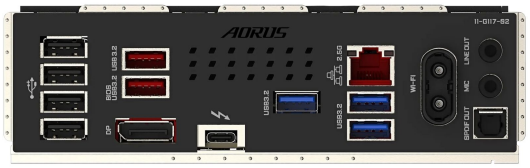
Gigabyte Z890 Aorus Elite WiFi 7 Intel Core Ultra Socket LGA 1851 ATX Motherboard, Intel Z890 Express Chipset, 4x DDR5 DIMM Memory slots, 1x Intel Thunderbolt 4 connector (USB4 USB Type-C Port) supporting DisplayPort and Thunderbolt Video Outputs, 1x front HDMI Port, 1x DisplayPort, High Definition audio, Realtek 2.5GbE LAN Chip, Wi-Fi 7, Bluetooth 5.4, 1x PCI Express x16 slot supporting PCI-e 5.0 and running at x16, 2x PCI Express x16 slots supporting PCI-e 4.0 and running at x4, 4x M.2 connector supports PCI-e 5.0 x4/x2 SSD, 4x SATA 6Gb/s connectors, USB Type-C Port with USB 3.2 Gen 2 support, USB 3.2 Gen 2 Type-A Ports, USB 3.2 Gen 1 Ports, USB 2.0/1.1 Ports, 1x Q-Flash Plus Button, 1x Optical S/PDIF out connector, 2x audio jacks











Specifications

Overview:

Z890 AORUS ELITE WIFI7

- Supports Intel Core Ultra processors (Series 2)
- Digital twin 16+1+2 phases VRM solution
- D5 Bionic Corsa for Infinite Memory Performance
- AI Perfdrive : Provides optimal and customized BIOS preset profile for users
- Premium Compatibility : 4*DDR5 with XMP 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
- NewPower Monitor in HWinfo for real-time monitoring on CPU power phases
- Ultra-Fast Storage : 4*M.2 slots, including 1* PCIe 5.0 x4
- Efficient Thermal : VRM Thermal Armor Advanced & M.2 Thermal Guard L
- Fast Networking : 2.5GbE LAN & Wi-Fi 7 with directional Ultra-high gain antenna
- Extended Connectivity : THUNDERBOLT 4 Type-C with DP-Alt, DisplayPort
- High-Res Audio : ALC1220 & WIMA Audiophile Grade Capacitors
- Ultra Durable PCIe Armor : The metal back plate of PCIe x16 slot for enhanced durability
- PCIe UD Slot X : PCIe 5.0 x16 slot with 10X strength for graphics card

Features:

Infinite Memory Performance

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

All-round Connectivity

Experience ultimate connectivity with next-generation network, storage, and Wi-Fi solutions, delivering lightning-fast data transfer speeds.

- THUNDERBOLT 4
- Wi-Fi 7
- Directional Ultra-high Gain Antenna
- 2.5GbE LAN

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. AORUS series motherboards are engineered to endure and excel.

Specifications:

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Specifications	
Product Code	GA-Z890-AORUS ELITE-WIFI7
CPU	LGA1851 socket: Support for Intel Core Ultra Processors
	L3 cache varies with CPU
Chipset	Intel Z890 Express Chipset
Memory	Support for DDR5 9200(O.C) / 9066(O.C) / 8933(O.C) / 8800(O.C) / 8600(O.C) / 8400(O.C) / 8266(O.C) / 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 / 6200 / 6000 / 5800 / 5600MT / 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 ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules (operate in non-ECC mode)
	Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules
	Support for Extreme Memory Profile (XMP) memory modules
	Support CUDIMM memory module
	(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" for more information.)

Onboard Graphics	Integrated Graphics Processor-Intel HD Graphics support:
	- 1 x Intel Thunderbolt 4 connector (USB4 USB Type-C port), supporting DisplayPort and Thunderbolt video outputs
	When a Thunderbolt monitor is installed, the maximum resolution supported is 5120x2880@60 Hz with 24 bpp (single display output).
	When a USB4 USB Type-C monitor is installed, the maximum resolution supported is 3840x2160@240 Hz (single display output).
	* Because of the limited I/O resources of the PC architecture, the number of Thunderbolt devices that can be used is dependent on the number of the PCI Express devices being installed. (Refer to Chapter 2-6, "Back Panel Connectors," for more information.)
	* Support for DisplayPort 2.1 version and HDCP 2.3
	- 1 x front HDMI port, supporting a maximum resolution of 1920x1080@30 Hz
	* Support for HDMI 1.4 version
	- 1 x DisplayPort, supporting a maximum resolution of 4096x2304@60 Hz
	* Support for DisplayPort 2.1 version and HDCP 2.3
	(Graphics specifications may vary depending on CPU support.)
	Support for up to triple-display at the same time
Audio	Realtek ALC1220 CODEC
	* The back panel line out jack supports DSD audio.
	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	MediaTek Wi-Fi 7 MT7925 (PCB rev. 1.0)
	- 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
	Realtek Wi-Fi 7 RTL8922AE (PCB rev. 1.1)
	- 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.

Expansion Slots	CPU:
	- 1 x PCI Express x16 slot, supporting PCIe 5.0 and running at x16 (PCIEX16)
	* 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 4.0 and running at x4 (PCIEX4_1, PCIEX4_2)
Storage Interface	CPU:
	- 1 x M.2 connector (Socket 3, M key, type 25110/22110/2580/2280 PCIe 5.0 x4/x2 SSD support) (M2A_CPU)
	- 1 x M.2 connector (Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSD support) (M2B_CPU)
	Chipset:
	- 1 x M.2 connector (Socket 3, M key, type 25110/22110/2580/2280 PCIe 4.0 x4/x2 SSD support) (M2Q_SB)
	- 1 x M.2 connector (Socket 3, M key, type 22110/2280 SATA and PCIe 4.0 x4 SSD support) (M2M_SB)
	- 4 x SATA 6Gb/s connectors
	RAID 0, RAID 1, RAID 5, and RAID 10 support for NVMe SSD storage devices
	RAID 0, RAID 1, RAID 5, and RAID 10 support for SATA storage devices
USB	CPU:
	- 1 x Intel Thunderbolt 4 (USB Type-C) ports on the back panel
	*Support up to 40Gbps with Thunderbolt devices
	*Support up to 20Gbps with USB4 devices
	*Support up to 10Gbps with USB 3.2 devices
	Chipset:
	- 1 x USB Type-C port with USB 3.2 Gen 2 support, available through the internal USB header
	- 2 x USB 3.2 Gen 2 Type-A ports (red) on the back panel
	- 5 x USB 3.2 Gen 1 ports (3 ports on the back panel, 2 ports available through the internal USB header)
	Chipset+2 USB 2.0 Hubs:
	- 8 x USB 2.0/1.1 ports (4 ports on the back panel, 4 ports available through the internal USB headers)

Internal I/O Connectors	1 x 24-pin ATX main power connector
	2 x 8-pin ATX 12V power connectors
	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
	4 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 2 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 Q-Flash Plus button
	1 x reset jumper
	1 x Clear CMOS jumper
	(Note) Actual support may vary by CPU.
Back Panel Connectors	1 x Intel Thunderbolt 4 connectors (USB Type-C ports)
	2 x USB 3.2 Gen 2 Type-A ports (red)
	3 x USB 3.2 Gen 1 ports
	4 x USB 2.0/1.1 ports
	2 x antenna connectors (2T2R)
	1 x DisplayPort (Note)
	1 x RJ-45 port
	1 x optical S/PDIF Out connector
	2 x audio jacks
	(Note) 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
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-Z890-AORUS-ELITE-WIFI7-Gigabyte-Z890-Aorus-Elite-WiFi-7-Intel-Core-Ultra-Socket-p-316332.php

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