

GIGABYTE Z890 AORUS ELITE WIFI7 ICE LGA 1851 ATX Motherboard

Sale Price: 43800.0



PRODUCT ID: 0007002

Basic

Information

Supported CPU	Intel Core Ultra Processors(Series 2)
Chipset	Intel Z890 Chipset
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
Form Factor	ATX Form Factor; 30.5cm x 24.4cm
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

Expansion

Slots

PCI	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)
M.2 Socket	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)

Memory

Type	DDR5
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Information

Slots	4 x DIMM
Supported 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.
Maximum Memory	256GB

Graphics

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.)
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Connector & Ports

HDMI	1 x HDMI
Display Port (s)	1 x DisplayPort

Information

USB (s)	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)
LAN Port (s)	1 x Realtek 2.5Gb Ethernet ASUS LANGuard
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
Supported Storage	- 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	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
Audio	1 x front panel audio header 2 x audio jacks

Information

Internal I/O	1 x 24-pin ATX main power connector
Ports	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
	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

TPM (Trusted Platform Module)	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)
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Others

Special 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.
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Support for Q-Flash
 Support for Q-Flash Plus
 Support for Smart Backup

Bundled Software	Norton® Internet Security (OEM version) LAN bandwidth management software
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Information

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