

GIGABYTE Z890 AORUS MASTER WiFi7 LGA 1851 ATX Motherboard

Sale Price: 81000.0



PRODUCT ID: 02698

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 front panel line out jack supports DSD audio. ESS ES9118 DAC chip Support for DTS:X® Ultra High Definition Audio 2/4/5.1-channel * You can change the functionality of an audio jack using the audio software. To configure 5.1-channel audio, access the audio software for audio settings. Support for S/PDIF Out

Expansion

Slots

Basic Information

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.

* The PCIEX16 slot shares bandwidth with the M2D_CPU connector. The PCIEX16 slot operates at up to x8 mode when a device is installed in the M2D_CPU connector.

Chipset:

- 1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x4 (PCIEX4)

- 1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x1 (PCIEX1)

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)

- 1 x M.2 connector (Socket 3, M key, type 22110/2280 PCIe 5.0 x4/x2 SSD support) (M2D_CPU)

Chipset:

- 1 x M.2 connector (Socket 3, M key, type 2280 PCIe 4.0 x4/x2 SSD support) (M2P_SB)

- 1 x M.2 connector (Socket 3, M key, type 2280 SATA and PCIe 4.0 x4/x2 SSD support) (M2M_SB)

Memory

Type

DDR5

Slots

4 x DIMM

Supported Memory

Support for DDR5 9500(O.C) / 9466(O.C) / 9333(O.C) / 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.

Support for Extreme Memory Profile (XMP) memory modules

Support CUDIMM memory module

Maximum Memory

256GB (64 GB single DIMM capacity) of system memory

Graphics

Basic Information

Graphics

Integrated Graphics Processor-Intel® HD Graphics support:

- 2 x Intel® Thunderbolt™ 4 connectors (USB4® USB Type-C® ports), 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.

(Graphics specifications may vary depending on CPU support.)

Connector & Ports

HDMI	1 x front HDMI port, supporting a maximum resolution of 1920x1080@30 Hz
Display Port (s)	2 x Intel® Thunderbolt™ 4 connectors (USB4® USB Type-C® ports), 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).
LAN Port (s)	Marvell® AQtion AQC113C 10GbE LAN chip (10 Gbps/5 Gbps/2.5 Gbps/1 Gbps/100 Mbps)
Wireless Communication module	Intel® Wi-Fi 7 BE200NGW - 802.11a, b, g, n, ac, ax, be, supporting 2.4/5/6 GHz carrier frequency bands - BLUETOOTH 5.4 - Support for 11be 320MHz 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.

Basic Information

Supported Storage	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 22110/2280 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/x2 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
Internal I/O Ports	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 4 x system fan headers 4 x system fan/water cooling pump headers 4 x addressable RGB Gen2 LED strip headers 1 x RGB LED strip header 5 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 2 x USB 3.2 Gen 1 headers 2 x USB 2.0/1.1 headers 1 x noise detection header 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 2 x temperature sensor headers Voltage Measurement Points
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)

Others

Basic Information

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. Support for Q-Flash Support for Q-Flash Plus Support for Smart Backup
Bundled Software	Norton® Internet Security (OEM version) LAN bandwidth management software

Warranty Information

Manufacturing Warranty	3 Year Warranty
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