

Z690GTA



Supports 12th/ 13th Generation Intel Core™ Processor

Intel Z690 single chip architecture

Supports 4-DIMM DDR4- 1866/ 2133/ 2400/ 2666/ 2800/ 2933 3200/ 3600(OC)/ 3800(OC)/ 4000(OC)/ 4133(OC)/4333(OC)/ 5000+(OC) up to 128 GB Memory

Supports PCIe 5.0

Supports PCIe M.2 4.0 (64Gb/s)

Supports Intel Optane Technology

Supports HDMI 2.0

Supports 2.5 GbE LAN

Supports USB 3.2 Gen2 Type C

Support WiFi 6 & 6E module (No WiFi card included)

Chipset Intel Z690

CPU SUPPORT Support for 12th/ 13th Generation Intel Core™ i9/ i7/ i5/ i3 processors and Intel Pentium processors/ Intel Celeron processors in the LGA1700 package

* Please refer to www.biostar.com.tw for CPU support list.

MEMORY Supports Dual Channel DDR4-1866/ 2133/ 2400/ 2666/2800/2933/3200/3600(OC)/3800(OC)/4000(OC)/ 4133(OC)/4300(OC)/5000+(OC)

4 x DDR4 DIMM Memory Slot, Max. Supports up to 128 GB Memory

Each DIMM supports non-ECC 4/ 8/ 16/ 32GB DDR4 module

Support Intel Extreme Memory Profile (XMP) memory modules

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INTEGRATED VIDEO By CPU model

Supports DX12

Supports HDCP

STORAGE -- Total supports 3 x M.2 socket and 8 x SATA III (6Gb/s) ports

8 x SATA III Connector (6Gb/s) : Supports AHCI, RAID 0, 1, 5, 10 & Intel Rapid Storage Technology
(Only SATA1~SATA4)

1 x M.2 (M Key) Socket (M2-PCIE4_64G_1)

Supports M.2 Type 2280 SSD module

Supports PCIe 4.0 x 4 (64Gb/s)

1 x M.2 (M Key) Socket (M2_PCIE4_64G_2):

Supports M.2 Type 2280 SSD module

Supports PCIe 4.0 x 4 (64Gb/s)

Supports Intel Rapid Storage Technology and Intel Optane Technology

1 x M.2 (M Key) Socket (M2_PCIEG3_32G_SATA_1):

Supports M.2 Type 2242/ 2260/ 2280/ 22110 SSD module

Supports PCIe 3.0 x 4 (32Gb/s) & SATA III (6Gb/s)SSD

Supports Intel Rapid Storage Technology and Intel Optane Technology

* When using SATA SSD module on M.2 slot(M2_PCIEG3_32_SATA_1), the SATA_8 connector will be disabled.

** When using PCIE SSD module on M.2 slot (M2_PCIEG4_64G_2), the PCIEG4X4 slot will be disabled.

LAN Realtek RTL8125B

10/ 100/ 1000/ 2500 Mb/s auto negotiation, Half / Full duplex capability

AUDIO CODEC ALC1220

7.1 Channels, High Definition Audio, Hi-Fi(Front)

USB 2 x USB 3.2 (Gen2) Type-C port (1 on rear I/O and 1 via internal header)

5 x USB 3.2 (Gen2) port (5 on rear I/Os)

2 x USB 3.2 (Gen1) port (2 via internal header)

6 x USB 2.0 port (2 on rear I/Os and 4 via internal header)

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EXPANSION SLOT 2 x PCIe 3.0 x1 Slots

1 x PCIe 5.0 x16 Slot

1 x PCIe 4.0 x16 Slot (x4 mode)

REAR I/O 2 x WIFI Antenna Ports

1 x PS/2 Keyboard/ Mouse Port

1 x HDMI Port (HDMI2.0)

1 x DP Port

1 x DVI-D Port

1 x USB 3.2 (Gen2) Type-C Port

5 x USB 3.2 (Gen2) Ports

2 x USB 2.0 ports

1 x LAN port

3 x Audio Jack

INTERNAL I/O 8 x SATA III Connectors (6Gb/s)

1 x M.2 (E Key) Socket : Supports 2230 type Wi-Fi & Bluetooth module and Intel CNVi

2 x USB 2.0 Headers (each header supports 2 USB 2.0 ports)

1 x USB 3.2 (Gen1) Header (each header supports 2 USB 3.2 (Gen1) ports)

1 x USB 3.2 (Gen2) Type C Header.

1 x 4-Pin Power Connector

1 x 8-Pin Power Connector

1 x 24-Pin Power Connector

1 x CPU Fan Connector

1 x CPU water cooling connector (CPU_OPT)

3 x System Fan Connectors

2 x MOSFET Fan Connectors

1 x Front Panel Header

1 x Front Audio Header

1 x Internal Stereo Speaker Header

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1 x Clear CMOS Header

1 x COM Port Header

1 x TPM Header

1 x Thunderbolt Header

2 x LED Header (5V)

1 x LED Header (12V)

1 x IO LED Header

1 x SB LED Header

* M.2 (E key) Wi-Fi card is not provided

H/W MONITORING CPU / System Temperature Monitoring

CPU / System Fan Monitoring

Smart / Manual CPU Fan Control

System Voltage Monitoring

DIMENSION ATX Form Factor Dimension: 30.5 cm x 24.4cm (W x L)

OS SUPPORT Supports Windows 10(64bit) / 11(64bit)

※Biostar reserves the right to add or remove support for any OS with or without notice.

BUNDLE SOFTWARE Racing GT Utility

BullGuard

ACCESSORIES 4 x SATA Cable

1 x DVD Driver

1 x User Manual

FEATURES VIVID LED DJ

M.2 Cooling Protection

Tweak Tech

BIO-FLASHER

A.I FAN

LED ROCK ZONE

RGB Memory Sync

BIOS EZ Mode /Advanced Mode

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Intel Optane technology