Gigabyte Z690 AOURUS ELITE DDR4

1.0 - motherboard - ATX - LGA1700 Socket - Z690 Chipset - USB-C Gen2 - USB 3.2 Gen 1 - USB 3.2 Gen 2 - USB-C Gen 2x2 - 2.5 Gigabit LAN - onboard graphics (CPU required) - HD Audio (8-channel)

Group	Motherboards
Manufacturer	Gigabyte
Manufacturer item no.	Z690 AORUS ELITE
EAN/UPC	4719331827885

Description

Rule supreme with the Z690 AORUS gaming motherboards. The king of gaming platform continues the legendary AORUS bloodline with the robust power delivery and dominant thermal design, glorified with the complete memory overclocking technology to crown your PC with the Alder Lake's performance in all its gaming glory.

Main features

Product Description	Gigabyte Z690 AOURUS ELITE DDR4 - 1.0 - motherboard - ATX - LGA1700 Socket - Z690
Product Type	Motherboard - ATX
Chipset Type	Intel Z690
Processor Socket	1 x LGA1700 Socket
Compatible Processors	Core i5, Core i7, Core i9 (supports 12th Generation Intel Core)
Max RAM Size	128 GB
RAM Supported	4 DIMM slots - DDR4, non-ECC, ECC (operate in non-ECC mode), unbuffered
Storage Ports	6 x SATA-600 (RAID), 4 x M.2
USB / FireWire Ports	1 x USB-C Gen 2x2 + 2 x USB 3.2 Gen 2 + 3 x USB 3.2 Gen 1 + 4 x USB 2.0 + (1 x USB-C Gen 2 + 2 x USB 3.2 Gen 1 + 4 x USB 2.0 via headers)
Audio	HD Audio (8-channel)
LAN	2.5 Gigabit Ethernet

Extended details

	General
Product Type	Motherboard - ATX
Chipset Type	Intel Z690
Processor Socket	LGA1700 Socket
Max Processors Qty	1
Compatible Processors	Core i5, Core i7, Core i9 (supports 12th Generation Intel Core)
	Supported RAM
Max Size	128 GB
Technology	DDR4

Bus Clock	2400 MHz, 2133 MHz, 2800 MHz, 3000 MHz, 2666 MHz, 2933 MHz, 3300 MHz (O.C.), 3400 MHz (O.C.), 3333 MHz (O.C.), 3466 MHz (O.C.), 3733 MHz (O.C.), 3600 MHz (O.C.), 3800 MHz (O.C.), 3666 MHz (O.C.), 3866 MHz (O.C.), 4000 MHz (O.C.), 4133 MHz (O.C.), 4500 MHz (O.C.), 4400 MHz (O.C.), 4300 MHz (O.C.), 4266 MHz (O.C.), 4600 MHz (O.C.), 4700 MHz (O.C.), 4800 MHz (O.C.), 3200 MHz, 4933 MHz (O.C.), 5000 MHz (O.C.), 5333 MHz (O.C.), 5133 MHz (O.C.)
Supported RAM Integrity Check	Non-ECC, ECC (operate in non-ECC mode)
Registered or Buffered	Unbuffered
Features	Dual channel memory architecture, Intel Extreme Memory Profiles (XMP), supported ECC modules operate in non-ECC mode
	Audio
Type	HD Audio (8-channel)
Audio Codec	Realtek ALC1220-VB
Compliant Standards	High Definition Audio
	LAN
Network Interfaces	2.5 Gigabit Ethernet
	Expansion / Connectivity
Expansion Slots	1 x CPU ¦ 4 x DIMM 288-pin ¦ 1 x PCIe 5.0 x16 ¦ 2 x PCIe 3.0 x16 (x4 mode)
Storage Interfaces	SATA-600 -connectors: 6 x 7pin Serial ATA - RAID 0 / RAID 1 / RAID 10 / RAID 5 ¦ PCIe 4.0 -connectors: 3 x M.2 ¦ SATA-600 / PCIe 4.0 -connectors: 1 x M.2
Interfaces	1 x LAN (2.5Gigabit Ethernet) ¦ 1 x DisplayPort ¦ 1 x audio line-out - mini-jack ¦ 1 x microphone - mini-jack ¦ 3 x USB 3.2 Gen 1 ¦ 2 x USB 3.2 Gen 2 ¦ 1 x USB-C Gen2x2 ¦ 1 x TOSLINK ¦ 4 x USB 2.0 ¦ 1 x HDMI
Internal Interfaces	4 x USB 2.0 - header ¦ 2 x USB 3.2 Gen 1 - header ¦ 1 x USB-C Gen2 - header ¦ 1 x audio - header ¦ 2 x Thunderbolt - header
Power Connectors	4-pin ATX12V connector, 24-pin main power connector, 8-pin ATX12V connector
	Features
BIOS Type	AMI
BIOS Features	WfM 2.0 support, UEFI BIOS, SMBIOS 2.7 support, DMI 2.7 support, ACPI 5.0 support
Hardware Monitoring	CPU core temperature, chassis temperature, CPU fan tachometer, chassis fan tachometer, system voltage, CPU overheating protection, CPU core voltage, water cooling flow rate, fan fail warning
Hardware Features	Q-Flash, On/Off Charge, AMD CrossFireX technology support, AMD Quad CrossFireX technology support, GIGABYTE AMP-UP Audio, 2x Copper PCB, 6 Layer PCB, Q-Flash Plus, Game Boost, Ultra Durable Memory Armor, Intel Optane Memory Ready, Ultra Durable PCIe Armor, Solid Pin Power Connectors, RGB FUSION 2.0, M.2 Thermal Guard II, GIGABYTE Smart Fan 6, 16+1+2 Phase Power Design
	Miscellaneous
Software Included	Norton Internet Security, @BIOS, EasyTune, Xpress Install, GIGABYTE App Center, GIGABYTE Fast Boot, GIGABYTE Smart Backup, Realtek Gaming LAN Bandwidth Control
Width	30.5 cm
Depth	24.4 cm

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