

# GIGABYTE Z690 GAMING X DDR4 (rev. 1.0) Intel Z690 LGA 1700 ATX

**Brand :** GIGABYTE

**Product code:** Z690 GAMING X DDR4

**Product name :** Z690 GAMING X DDR4 (rev. 1.0)

- Supports 12th Gen Intel® Core™ Series Processors
  - Dual Channel Non-ECC Unbuffered DDR4, 4 DIMMs
  - Direct 16+1+2 Digital VRM Design with 60A Power Stage\* and Tantalum Polymer Capacitor
  - Shielded Memory Routing to Avoid Interference
  - Fully Covered Thermal Design with High Coverage MOSFET Heatsinks
  - AMP-UP Audio with ALC1220 and WIMA Audio Capacitors
  - Fast 2.5GbE LAN with Bandwidth Management
  - 4 x Ultra-Fast NVMe PCIe 4.0/3.0 x4 M.2 with Enlarged Thermal Guards
  - SuperSpeed USB 3.2 Gen2x2 TYPE-C® delivers up to 20Gb/s transfer speeds
  - RGB FUSION 2.0 with Multi-Zone Addressable LED Light Show Design, Support Addressable LED & RGB LED Strips
  - Smart Fan 6 Features Multiple Temperature Sensors, Hybrid Fan Headers with FAN STOP
  - Q-Flash Plus Update BIOS without Installing the CPU, Memory and Graphics Card
- LGA 1700, Intel Z690 Chipset, 4 x DDR4-SDRAM up to 128GB, LAN, 1 x RJ-45, 6 x SATA III, UEFI AMI, ATX



Processor		Rear panel I/O ports	
Processor manufacturer *	Intel	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Processor socket *	LGA 1700	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2
Compatible processor series *	Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
<b>Memory</b>		Ethernet LAN (RJ-45) ports *	1
Supported memory types *	DDR4-SDRAM	HDMI ports quantity *	1
Number of memory slots *	4	S/PDIF out port	✓
Memory slots type	DIMM	<b>Network</b>	
Memory channels	Dual-channel	Ethernet LAN	✓
ECC compatibility	ECC & Non-ECC	Ethernet interface type	2.5 Gigabit Ethernet
Supported memory clock speeds	2133,2400,2666,2800,2933,3000,3200,3300,3333,3400,3466,3600,3666,3733,3800,3866,4000,4133,4266,4300,4400,4500,4600,4700,4800,4933,5000,5133,5333 MHz	Wi-Fi *	✗
Maximum internal memory *	128 GB	<b>Features</b>	
Unbuffered memory	✓	Motherboard chipset *	Intel Z690
<b>Storage controllers</b>		Audio chip	Realtek ALC1220-VB
Supported storage drive types	HDD & SSD	Audio output channels *	7.1 channels
Supported storage drive interfaces *	M.2, SATA III	PC health monitoring	Fan, Temperature, Voltage
RAID support	✓	Component for *	PC
RAID levels	0, 1, 5, 10	Motherboard form factor *	ATX
<b>Graphics</b>		Motherboard chipset family *	Intel
Parallel processing technology support *	2-Way CrossFireX, Quad-GPU CrossFireX	Windows operating systems supported	Windows 10 x64
HDCP	✓	<b>Expansion slots</b>	
<b>Internal I/O</b>		PCI Express x16 slots	1
USB 2.0 connectors *	2	<b>BIOS</b>	
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	BIOS type *	UEFI AMI
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	BIOS memory size	256 Mbit
Number of SATA III connectors *	6	ACPI version	5.0
ATX Power connector (24-pin)	✓	Clear CMOS jumper	✓
CPU fan connector	✓	Desktop Management Interface (DMI) version	2.7
Peripheral (Molex) power connectors (4-pin)	1		
EPS power connector (8-pin)	✓		
RGB LED pin header	✓		
<b>Rear panel I/O ports</b>			
USB 2.0 ports quantity *	4		

**BIOS**

System Management BIOS (SMBIOS) version	2.7
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**Logistics data**

Harmonized System (HS) code	84733020
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**Weight & dimensions**

Width	305 mm
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Depth	244 mm
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Height	70 mm
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**Other features**

Weight	1 kg
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