

## Gigabyte Z690 AORUS MASTER Intel Z690 LGA 1700 Extended ATX

**Brand :** Gigabyte

**Product code:** Z690 AORUS MASTER 1.0

**Product name :** Z690 AORUS MASTER

- Support 12th Gen Intel® Series Processors
  - Dual Channel Non-ECC Unbuffered DDR5, 4 DIMMs
  - Direct 19+1+2 Phases VRM Design with 105A Power Stage and Tantalum Polymer Capacitor
  - DDR5 XTREME MEMORY Design with SMD DIMM and Shielded Memory Routing
  - Advanced Thermal Solution with NanoCarbon Fins-Array III Heatsink, Direct-Touch Heatpipe II and NanoCarbon Baseplate
  - Intel® WIFI 6E 802.11ax 2T2R & BT5 with AORUS Antenna
  - Audio Solution with ESS Sabre ES9118 125dB on Rear Audio
  - AQUANTIA® 10GbE BASE-T LAN
  - 5 x Ultra-Fast NVMe PCIe 4.0/3.0 x4 M.2 with Thermal Guards
  - RGB FUSION 2.0 with Multi-Zone Addressable LED Light Show Design, Support Addressable LED & RGB LED Strips
- E-ATX, Intel Z690 Express chipset, LGA 1700 Socket, 4xDDR5 DIMM slots, 7.1 ch audio, 10-Gigabit LAN, Wi-Fi 6E, Bluetooth 5.2, AMI UEFI BIOS



Processor		Rear panel I/O ports	
Processor manufacturer *	Intel	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
Processor socket *	LGA 1700	USB 3.2 Gen 2x2 Type-C ports quantity	1
Compatible processor series *	Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9	Ethernet LAN (RJ-45) ports *	1
Supported processor sockets	LGA 1700	DisplayPorts quantity	1
<b>Memory</b>		DisplayPort version	1.2
Supported memory types *	DDR5-SDRAM	Headphone outputs	5
Number of memory slots *	4	Microphone in	✓
Memory slots type	DIMM	S/PDIF out port	✓
Memory channels	Dual-channel	WiFi-AP antenna jack	2
ECC	✓	USB connector type	USB Type-A, USB Type-C
Non-ECC	✓	<b>Network</b>	
Supported memory clock speeds	4000,4800,5200,5400,5600,5800,6000,6200,6400 MHz	Ethernet LAN	✓
Maximum internal memory *	128 GB	Ethernet interface type	10 Gigabit Ethernet
Unbuffered memory	✓	LAN controller	Marvell AQtion AQC113C
<b>Storage controllers</b>		Wi-Fi *	✓
Supported storage drive types	HDD & SSD	Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Supported storage drive interfaces *	M.2, PCI Express 3.0, PCI Express 4.0, SATA III	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax), Wi-Fi 6E (802.11ax)
Number of storage drives supported	11	WLAN controller model	Intel Wi-Fi 6E AX210
RAID support	✓	Bluetooth	✓
RAID levels	0, 1, 5, 10	Bluetooth version	5.2
<b>Graphics</b>		<b>Features</b>	
Parallel processing technology support *	2-Way CrossFireX, Quad-GPU CrossFireX	Motherboard chipset *	Intel Z690
Maximum resolution	4096 x 2304 pixels	Audio chip	Realtek ALC1220-VB
HDCP	✓	Audio output channels *	7.1 channels
<b>Internal I/O</b>		PC health monitoring	Fan, Noise, Temperature, Voltage, Water cooling
USB 2.0 connectors *	2	Component for *	PC
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	Motherboard form factor *	Extended ATX
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	Motherboard chipset family *	Intel

Internal I/O		Features	
Number of SATA III connectors *	6	Windows operating systems supported	Windows 10 x64, Windows 11 x64
Front panel audio connector	✓	Harmonized System (HS) code	84733020
Front panel connector	✓	<b>Expansion slots</b>	
ATX Power connector (24-pin)	✓	PCI Express x16 slots	3
CPU fan connector	✓	Number of M.2 (M) slots	5
Number of chassis fan connectors	4	<b>BIOS</b>	
EPS power connector (8-pin)	✓	BIOS type *	UEFI AMI
TPM connector	✓	BIOS memory size	256 Mbit
Thunderbolt headers	2	ACPI version	5.0
12V power connector	✓	Clear CMOS jumper	✓
RGB LED pin header	✓	Clear CMOS button	✓
<b>Rear panel I/O ports</b>		Desktop Management Interface (DMI) version	2.7
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	System Management BIOS (SMBIOS) version	2.7
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	5	<b>Weight &amp; dimensions</b>	
		Width	305 mm
		Depth	259 mm
		Height	70 mm
		<b>Packaging content</b>	
		Cables included	SATA
		Bundled software	Norton Internet Security, cFosSpeed
		<b>Other features</b>	
		Weight	1 kg



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