



## GIGABYTE Z790 AORUS MASTER X Motherboard- Supports Intel 13th Gen CPUs, 20+1+2 phases VRM, up to 8266MHz DDR5 (OC), 1x PCIe 5.0 + 4x PCIe 4.0 M2, 10GbE LAN, Wi-Fi 7, USB 3.2 Gen 2x2

**Brand :** GIGABYTE

**Product code:** Z790 AORUS MASTER X



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- LGA 1700: Supports Intel Core 13th and next-gen processors
- Digital direct 20+1+2 phases VRM solution
- Full support up to DDR5-8266
- 1\*PCIe 5.0 x4 and 4\*PCIe 4.0 x4 M.2 Connectors
- VRM Thermal Armor Fins-Array & M.2 Thermal Guard XL
- DIY-Friendly Design: Quick Release & Screwless Design for M.2 modules and graphics card
- LGA1700, Intel Z790 Express, 4 x DDR5, Wi-Fi 7, E-ATX, 1 x DisplayPort

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Elevate your computing experience with GIGABYTE's renowned motherboard series: AORUS, AERO, and GIGABYTE. Featuring innovative designs and advanced features, these boards offer exceptional performance and reliability. Whether you're a gamer, content creator, or professional, our series cater to your needs, ensuring uncompromising quality and cutting-edge technology.

Processor		Rear panel I/O ports	
Processor manufacturer *	Intel	Headphone outputs	1
Processor socket *	LGA 1700	Microphone in	✓
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3,	S/PDIF out port	✓
	Intel® Core™ i5, Intel® Core™ i7,	Digital audio optical out	1
Maximum number of SMP processors	1	WiFi-AP antenna jack	2
		USB connector type	USB Type-A, USB Type-C
Supported processor sockets	LGA 1700	Network	
Maximum internal memory supported by processor	192 GB	Ethernet LAN	✓
<b>Memory</b>	Supported memory types * 4 DIMM Dual-channel ECC Non-ECC Supported memory clock speeds 4000,4800,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000,7200,7400,7600,7800,7900,7950,8000,8200,8266 Supported memory clock speed (max) 8266 MHz Maximum internal memory * 192 GB Unbuffered memory ✓	Ethernet interface type	10 Gigabit Ethernet
		Supported memory slots * Memory slots type Memory channels ECC Non-ECC Supported memory clock speeds 4000,4800,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000,7200,7400,7600,7800,7900,7950,8000,8200,8266 Supported memory clock speed (max) 8266 MHz Maximum internal memory * 192 GB Unbuffered memory ✓	LAN controller
<b>Storage controllers</b>		Wi-Fi *	✓
Supported storage drive types	HDD & SSD	Top Wi-Fi standard	Wi-Fi 7 (802.11be)
Supported storage drive interfaces *	M.2, 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 7 (802.11be)
Number of HDDs supported	4	Bluetooth	✓
Number of storage drives supported	9	Bluetooth version	5.3
RAID support	✓	Features	
RAID levels	0, 1, 5, 10	Motherboard chipset *	Intel Z790 Express
<b>Graphics</b>	Parallel processing technology support * Not supported	Audio chip	Realtek ALC1220-VB
		Maximum resolution	4096 x 2304 pixels
HDCP	✓	Audio output channels *	7.1 channels
DirectX version	12.0	Product colour	Black
Discrete graphics support	✓	PC health monitoring	Fan, Noise, Temperature, Voltage, Water cooling
		Component for *	PC
		Motherboard form factor *	Extended ATX
		Motherboard chipset family *	Intel
		Windows operating systems supported	Windows 11 x64
		Expansion slots	
		PCI Express x16 (Gen 3.x) slots	2

Internal I/O		Expansion slots	
USB 2.0 connectors *	2	PCI Express x16 (Gen 5.x) slots	1
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	Number of M.2 (M) slots	5
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	<b>BIOS</b>	
Number of SATA III connectors *	4	BIOS type *	UEFI AMI
Front panel audio connector	✓	BIOS memory size	256 Mbit
Front panel connector	✓	ACPI version	5.0
ATX Power connector (24-pin)	✓	Clear CMOS jumper	✓
CPU fan connector	✓	Clear CMOS button	✓
Number of chassis fan connectors	8	Desktop Management Interface (DMI) version	2.7
EPS power connector (8-pin)	✓	System Management BIOS (SMBIOS) version	2.7
TPM connector	✓	<b>Logistics data</b>	
Thunderbolt headers	2	Country of origin	Taiwan
12V power connector	✓	Products per shipping (inner) case	1 pc(s)
RGB LED pin header	✓	<b>Battery</b>	
<b>Rear panel I/O ports</b>		Battery weight	3 g
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Lithium weight per battery	0.07 g
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1	Number of battery cells	1
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	7	Battery technology	Lithium-Manganese Dioxide (LiMnO <sub>2</sub> )
USB 3.2 Gen 2x2 Type-C ports quantity	2	Battery type	CR2032
Ethernet LAN (RJ-45) ports *	1	<b>Packaging data</b>	
DisplayPorts quantity	1	Package width	345 mm
DisplayPort version	1.2	Package depth	294 mm
		Package height	80 mm
		Package weight	3.46 kg
		<b>Weight &amp; dimensions</b>	
		Width	305 mm
		Depth	260 mm
		Height	35 mm
		<b>Packaging content</b>	
		Cables included	SATA
		Batteries included	✓
		Antenna included	✓
		Bundled software	Norton® Internet Security (OEM version) LAN bandwidth management software
		<b>Technical details</b>	
		Warranty period	3 year(s)



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