

GIGABYTE Z790 AORUS MASTER Motherboard - Supports Intel Core 13th CPUs, 20+1+2 Phases Digital VRM, up to 8000MHz DDR4 (OC), 1xPCIe 5.0+4xPCIe 4.0 M.2, Wi-Fi 6E, 10GbE LAN, USB 3.2 Gen 2x2

Brand : GIGABYTE

Product code: Z790 AORUS MASTER

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E-ATX, LGA 1700 socket, Intel Z790 Express chipset, 4x DDR5, Wi-Fi 6E, AMI UEFI BIOS

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Processor		Rear panel I/O ports	
Processor manufacturer *	Intel	Ethernet LAN (RJ-45) ports *	1
Processor socket *	LGA 1700	DisplayPorts quantity	1
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3,	DisplayPort version	1.2
	Intel® Core™ i5, Intel® Core™ i7,	Headphone outputs	2
	Intel® Core™ i9, Intel® Pentium® Gold	Microphone in	✓
Supported processor sockets	LGA 1700	S/PDIF out port	✓
Maximum internal memory supported by processor	192 GB	WiFi-AP antenna jack	2
USB connector type		USB connector type	USB Type-A, USB Type-C
Memory		Network	
Supported memory types *	DDR5-SDRAM	Ethernet LAN	✓
Number of memory slots *	4	Ethernet interface type	10 Gigabit Ethernet
Memory slots type	DIMM	LAN controller	Marvell AQtion AQC113C
Memory channels	Dual-channel	Wi-Fi *	✓
ECC	✓	Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Non-ECC	✓	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)
Supported memory clock speeds	8000,7950,7900,7800,4000,4800,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000,7200,7400,7600 MHz	WLAN controller model	Killer Wi-Fi 6E AX1690
Supported memory clock speed (max)	8000 MHz	Bluetooth	✓
Maximum internal memory *	192 GB	Bluetooth version	5.3
Supported memory module capacities	1GB, 2GB, 4GB, 8GB, 12GB, 16GB, 32GB, 48GB	Features	
Unbuffered memory	✓	Motherboard chipset *	Intel Z790
Storage controllers		Audio chip	Realtek ALC1220-VB
Supported storage drive types	HDD & SSD	Audio output channels *	7.1 channels
Supported storage drive interfaces *	M.2, PCI Express 4.0, PCI Express 5.0, SATA III	Product colour	Black
Number of HDDs supported	4	PC health monitoring	Fan, Noise, Temperature, Voltage, Water cooling
Number of storage drives supported	9	Component for *	PC
RAID support	✓	Motherboard form factor *	Extended ATX
RAID levels	0, 1, 5, 10	Motherboard chipset family *	Intel
Graphics		Windows operating systems supported	Windows 10 x64, Windows 11 x64
Parallel processing technology support *	Crossfire		
Maximum resolution	4096 x 2304 pixels		
HDCP	✓		
DirectX version	12.0		
Internal I/O			
USB 2.0 connectors *	2		

Internal I/O		Expansion slots	
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	PCI Express x16 slots	3
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	Number of M.2 (M) slots	5
Number of SATA III connectors *	4	BIOS	
Total number of SATA 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	✓
EPS power connector (8-pin)	✓	Desktop Management Interface (DMI) version	2.7
TPM connector	✓	System Management BIOS (SMBIOS) version	2.7
Thunderbolt headers	2	Logistics data	
12V power connector	✓	Country of origin	Taiwan
RGB LED pin header	✓	Products per shipping (inner) case	1 pc(s)
Rear panel I/O ports		Battery	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Battery weight	3 g
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1	Lithium weight per battery	0.07 g
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	7	Number of battery cells	1
USB 3.2 Gen 2x2 Type-C ports quantity	2	Battery technology	Lithium-Manganese Dioxide (LiMnO2)
		Battery type	CR2032
		Packaging data	
		Package width	345 mm
		Package depth	294 mm
		Package height	80 mm
		Package weight	3.46 kg
		Weight & dimensions	
		Width	305 mm
		Depth	260 mm
		Height	35 mm
		Packaging content	
		Cables included	SATA
		Batteries included	✓
		Technical details	
		Warranty period	3 year(s)



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