

GIGABYTE X870E AORUS MASTER Motherboard

Brand : GIGABYTE
Product code: X870E AORUS MASTER
Product name : X870E AORUS MASTER Motherboard

- AMD Socket AM5: Supports AMD Ryzen 9000 Series, 8000 Series, 7000 Series Processors
 - Twin 16+2+2 Phases Digital VRM with 110A Smart Power Stage
 - Dual Channel DDR5 4*DIMMs with AMD EXPO & Intel XMP Memory Module Support
 - PCIe Gen5 x16 with PCIe UD Slot X & EZ-Latch Plus
 - M.2 Gen5 with EZ-Latch Plus
 - Efficient Overall Thermal: Fully Covered MOSFET Heatsinks
 - Extended Connectivity: HDMI, Sensor Panel Link (Front HDMI), 2*USB-C DP
 - Fast Networking: 5GbE LAN & Wi-Fi 7 with WIFI EZ-Plug & Directional Antenna
- Supports AMD Ryzen 9000 CPUs, 16+2+2 Phases Digital VRM, up to 8600MHz DDR5 (OC), 3xPCIe 5.0 + 1xPCIe 4.0, Wi-Fi 7, 5GbE LAN, USB 4

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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



Processor		Network	
Processor manufacturer *	AMD	Ethernet interface type	5 Gigabit Ethernet
Processor socket *	Socket AM5	LAN controller	Realtek RTL8126
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series	Wi-Fi *	✓
		Top Wi-Fi standard	Wi-Fi 7 (802.11be)
Supported processor sockets	Socket AM5	Wi-Fi standards	Wi-Fi 7 (802.11be)
Maximum internal memory supported by processor	256 GB	WLAN controller model	Qualcomm QCNCM865
Memory		Bluetooth	✓
Supported memory types *	DDR5-SDRAM	Bluetooth version	5.3
Number of memory slots *	4	Features	
Memory slots type	DIMM	Motherboard chipset *	AMD X870
Memory channels	Dual-channel	Audio chip	Realtek ALC1220
ECC compatibility	ECC & Non-ECC	Audio output channels *	7.1 channels
Supported memory clock speeds	4400,4800,5200,5600,6000,6200,6400,6600,6666,6800,7000,7200,7600,7800,8200,8400,8600 MHz	Product colour	Black
Supported memory clock speed (max)	8600 MHz	PC health monitoring	Fan, Temperature, Voltage
Maximum internal memory *	256 GB	Component for *	PC
Supported memory module capacities	1GB, 2GB, 4GB, 8GB, 12GB, 24GB, 32GB	Motherboard form factor *	ATX
Unbuffered memory	✓	Motherboard chipset family *	AMD
Maximum internal memory per slot	64 GB	Windows operating systems supported	Windows 11 x64
Storage controllers		Expansion slots	
Supported storage drive types	HDD & SSD	PCI Express x4 slots	2
Supported storage drive interfaces *	M.2, SATA III	PCI Express x16 (Gen 3.x) slots	1
Number of HDDs supported	4	PCI Express x16 (Gen 4.x) slots	1
Number of storage drives supported	8	PCI Express x16 (Gen 5.x) slots	1
RAID support	✓	Number of M.2 (M) slots	4
RAID levels	0, 1, 10	1st M.2 largest key size	25110
Graphics		1st M.2 highest PCI Express generation	5.0
Parallel processing technology support *	Not supported	2nd M.2 largest key size	22110
On-board graphics card	✗		
DirectX version	12.0		

Internal I/O		Expansion slots	
USB 2.0 connectors *	2	2nd M.2 highest PCI Express generation	5.0
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	3rd M.2 largest key size	22110
USB 3.2 Gen 2x2 connectors	1	3rd M.2 highest PCI Express generation	5.0
Number of SATA III connectors *	4	4th M.2 largest key size	22110
Front panel audio connector	✓	4th M.2 highest PCI Express generation	4.0
Front panel connector	✓	BIOS	
ATX Power connector (24-pin)	✓	BIOS type *	UEFI AMI
CPU fan connector	✓	BIOS memory size	256 Mbit
Number of CPU fan connectors	2	ACPI version	5.0
Number of chassis fan connectors	6	Clear CMOS jumper	✓
EPS power connector (8-pin)	✓	Clear CMOS button	✓
Number of EPS power connectors (8-pin)	2	Desktop Management Interface (DMI) version	2.7
TPM connector	✓	System Management BIOS (SMBIOS) version	2.7
Number of water pump connectors	2	Logistics data	
RGB LED pin header	✓	Country of origin	China
Number of RGB LED pin headers	5	Products per shipping (inner) case	1 pc(s)
Rear panel I/O ports		Battery	
USB 2.0 ports quantity *	2	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 2 (3.1 Gen 2) Type-A ports quantity *	4	Number of battery cells	1
USB4 Gen 2x2 ports quantity	2	Battery technology	Lithium-Manganese Dioxide (LiMnO2)
Ethernet LAN (RJ-45) ports *	1	Battery type	CR2032
HDMI ports quantity *	1	Packaging data	
HDMI version	2.1	Package width	345 mm
DisplayPort version	1.4	Package depth	294 mm
Headphone outputs	1	Package height	80 mm
Line-in	✓	Package weight	2.97 kg
S/PDIF out port	✓	Weight & dimensions	
WiFi-AP antenna jack	2	Width	305 mm
Network		Depth	244 mm
Ethernet LAN	✓	Height	35 mm
		Packaging content	
		Batteries included	✓
		Antenna included	✓
		Screws included	✓
		Other features	
		Weight	2.54 kg
		Technical details	
		Warranty period	3 year(s)



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Catalog Object Cloud



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