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GIGABYTE X870E AORUS ELITE X3D Motherboard - Supports AMD Ryzen 9000 CPUs, 16+2+2 Phases Digital VRM, up to 9000Hz DDR5 (OC), 2xPCIe 5.0 + 2xPCIe 4.0, Wi-Fi 7, 5GbE LAN, USB 4

Brand : GIGABYTE

Product code: X870E A ELITE X

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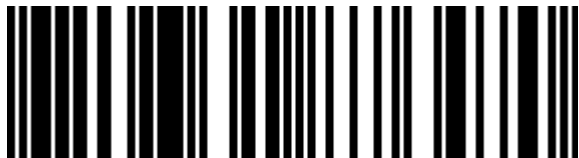
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Elevate your computing experience with GIGABYTE's renowned motherboard series: AORUS, AERO, and GIGABYTE. Featuring innovative designs and advanced features, these boards offer exceptional performance and reliability. Whether you're a gamer, content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

Processor

Processor manufacturer *	AMD
Processor socket *	Socket AM5
Compatible processor series *	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series
Supported processor sockets	Socket AM5

Memory

Supported memory types *	DDR5-SDRAM
Number of memory slots *	4
Memory slots type	DIMM
Memory channels	Dual-channel
ECC compatibility	Non-ECC
Supported memory clock speeds	9000,8800,8600,8400,8200,8000,7800,7600,7200,7000,6800,6600,6400,6200,6000,5600,5200,4800 MHz
Supported memory clock speed (max)	9000 MHz
Maximum internal memory *	256 GB
Unbuffered memory	✔
Maximum internal memory per slot	64 GB

Storage controllers

Supported storage drive types	HDD & SSD
Supported storage drive interfaces *	M.2, PCI Express 4.0, PCI Express 5.0, SATA III
Number of HDDs supported	4
Number of storage drives supported	8
RAID support	✔
RAID levels	0, 1, 5, 10

Graphics

Parallel processing technology support *	Not supported
Maximum resolution	4096 x 2304 pixels
HDCP	✔
DirectX version	12.0

Internal I/O

USB 2.0 connectors *	2
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2
USB 3.2 Gen 2x2 connectors	1

Network

Ethernet LAN	✔
Ethernet interface type	2.5 Gigabit Ethernet, 5 Gigabit Ethernet, Fast Ethernet, Gigabit Ethernet
LAN controller	Realtek RTL8126
Wi-Fi *	✔
Top Wi-Fi standard	Wi-Fi 7 (802.11be)
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), Wi-Fi 7 (802.11be)
WLAN controller model	Qualcomm QCNCM865
Bluetooth	✔
Bluetooth version	5.4

Features

Motherboard chipset *	AMD X870E
Audio chip	Realtek ALC1220-VB
Audio output channels *	7.1 channels
Product colour	Black
PC health monitoring	CPU, Fan, Temperature, Voltage, Water cooling
Component for *	PC
Motherboard form factor *	ATX
Motherboard chipset family *	AMD
Cooling type	Passive
Power source type	ATX
Windows operating systems supported	Windows 11 x64

Expansion slots

PCI Express x16 (Gen 3.x) slots	1
PCI Express x16 (Gen 4.x) slots	1
PCI Express x16 (Gen 5.x) slots	1
Number of M.2 (M) slots	4

Internal I/O

Number of SATA III connectors *	4
Front panel audio connector	✔
Front panel connector	✔
ATX Power connector (24-pin)	✔
CPU fan connector	✔
Number of CPU fan connectors	2
Number of chassis fan connectors	6
EPS power connector (8-pin)	✔
Number of EPS power connectors (8-pin)	2
TPM connector	✔
Number of water pump connectors	3
Number of temperature sensor headers	2
Number of noise detection headers	1
RGB LED pin header	✔
Number of RGB LED pin headers	4

Rear panel I/O ports

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	5
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
USB4 Gen 2x2 ports quantity	2
Ethernet LAN (RJ-45) ports *	1
HDMI ports quantity *	1
HDMI version	2.1
DisplayPort version	1.4
Headphone outputs	1
Line-in	✔
S/PDIF out port	✔
Digital audio optical out	1
WiFi-AP antenna jack	2

Expansion slots

1st M.2 largest key size	25110
1st M.2 highest PCI Express generation	5.0
2nd M.2 largest key size	22110
2nd M.2 highest PCI Express generation	5.0
3rd M.2 largest key size	22110
3rd M.2 highest PCI Express generation	4.0
4th M.2 largest key size	22110
4th M.2 highest PCI Express generation	4.0

BIOS

BIOS type *	UEFI AMI
BIOS memory size	512 Mbit
ACPI version	5.0
Clear CMOS jumper	✔
Clear CMOS button	✔
Desktop Management Interface (DMI) version	2.7
System Management BIOS (SMBIOS) version	2.7

Logistics data

Country of origin	China
Products per shipping (inner) case	1 pc(s)

Battery

Battery weight	3 g
Lithium weight per battery	0.07 g
Number of battery cells	1
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	3.41 kg

Weight & dimensions

Width	305 mm
Depth	244 mm
Height	35 mm

Packaging content

Batteries included	✔
Antenna included	✔
Screws included	✔
Bundled software	Norton® Internet Security (OEM version)

Other features

Weight	2.98 kg

Technical details

Warranty period	3 year(s)

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