GIGABYTE

GIGABYTE X870E AORUS PRO ICE Motherboard

Brand : GIGABYTE

Product code: X870E AORUS PRO ICE

Product name : X870E AORUS PRO ICE Motherboard

- AMD Socket AM5: Supports AMD Ryzen 9000 Series, 8000 Series, 7000 Series Processors
- Twin 16+2+2 Phases Digital VRM with 80A Smart Power Stage
- Dual Channel DDR5□4DIMMs 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: 2.5GbE LAN & Wi-Fi 7 with WIFI EZ-Plug & Directional Antenna

Supports AMD Ryzen 9000 CPUs, 16+2+2 Phases Digital VRM, up to 8000MHz DDR5 (OC), 3xPCIe 5.0 + 1xPCIe 4.0, Wi-Fi 7, 2.5GbE LAN, USB 4

GIGABYTE X870E AORUS PRO ICE Motherboard:

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

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
Maximum internal memory supported by processor	256 GB

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	4400,4800,5600,6000,6200,6400,6600,6800,7000,7600,7800,8000,8200 MHz
Supported memory clock speed (max)	8200 MHz
Maximum internal memory *	256 GB
Supported memory module capacities	1GB, 2GB, 4GB, 8GB, 12GB, 24GB, 32GB
Unbuffered memory	✔
Maximum internal memory per slot	64 GB

Storage controllers

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

Graphics

Parallel processing technology support *	Not supported
On-board graphics card	✘
DirectX version	12.0

Network

LAN controller	Realtek RTL8125
Wi-Fi *	✔
Top Wi-Fi standard	Wi-Fi 7 (802.11be)
Wi-Fi standards	Wi-Fi 7 (802.11be)
WLAN controller model	Qualcomm QCNCM865
Bluetooth	✔
Bluetooth version	5.3

Features

Motherboard chipset *	AMD X870E
Audio chip	Realtek ALC1220
Audio output channels *	7.1 channels
Product colour	White
PC health monitoring	Fan, Temperature, Voltage
Component for *	PC
Motherboard form factor *	ATX
Motherboard chipset family *	AMD
Windows operating systems supported	Windows 11 x64

Expansion slots

PCI Express x4 slots	2
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
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

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
Number of SATA III connectors *	4
Audio connector	✔
Front panel audio 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	2
RGB LED pin header	✔
Number of RGB LED pin headers	4

Rear panel I/O ports	
USB 2.0 ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	3
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
Microphone in	✔
S/PDIF out port	✔
WiFi-AP antenna jack	2

Network	
Ethernet LAN	✔
Ethernet interface type	2.5 Gigabit Ethernet

Expansion slots	
3rd M.2 largest key size	22110
3rd M.2 highest PCI Express generation	5.0
4th M.2 largest key size	22110
4th M.2 highest PCI Express generation	4.0

BIOS	
BIOS type *	UEFI AMI
BIOS memory size	256 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 capacity	220 mAh
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	2.74 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) LAN bandwidth management software

Other features	
Weight	2.4 kg

Technical details	
Warranty period	3 year(s)

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