

GIGABYTE X870E AORUS PRO ICE DDR5 AM5 ATX Motherboard

Sale Price: 52200.0

PRODUCT ID: 0006949

Basic Information

Supported CPU	AMD Socket AM5, support for: AMD Ryzen 9000, 8000, 7000 Series Processors
Chipset	AMD X870
BIOS	1 x 256 Mbit flash Use of licensed AMI UEFI BIOS PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0
Form Factor	ATX Form Factor; 30.5cm x 24.4cm
Audio	Realtek ALC1220 CODEC * The back panel line out jack supports DSD audio. High Definition Audio 2/4/5.1/7.1-channel * You can change the functionality of an audio jack using the audio software. To configure 7.1-channel audio, access the audio software for audio settings. Support for S/PDIF Out

Expansion Slots

PCI	1x PCI Express x16 slot (PCIEX16), integrated in the CPU: AMD Ryzen 9000/7000 Series Processors support PCIe 5.0 x16 mode * The M2B_CPU and M2C_CPU connectors share bandwidth with the PCIEX16 slot. When the M2B_CPU orM2C_CPU connector is populated, the PCIEX16 slot operates at up to x8 mode. AMD Ryzen 8000 Series-Phoenix 1 Processors support PCIe 4.0 x8 mode AMD Ryzen 8000 Series-Phoenix 2 Processors support PCIe 4.0 x4 mode (The PCIEX16 slot can only support a graphics card or an NVMe SSD. If only one graphics card is to be installed, be sure to install it in the PCIEX16 slot.) Chipset: - 1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x4 (PCIEX4_1) - 1 x PCI Express x16 slot, supporting PCIe 3.0 and running at x4 (PCIEX4_2)

Memory

Type	DDR5

Information

Slots	4 DIMMs
Supported Memory	Support for DDR5 8000(OC)/ 7800(OC)/ 7600(OC)/ 7200(OC)/ 7000(OC)/ 6800(OC)/ 6666(OC)/ 6600(OC)/ 6400(OC)/ 6200(OC)/ 6000(OC)/ 5600(OC)/ 5200/ 4800/ 4400 MT/s memory modules Dual channel memory architecture Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules Support for AMD EXtended Profiles for Overclocking (AMD EXPO) and Extreme Memory Profile (XMP) memory modules (The CPU and memory configuration may affect the supported memory types, data rate (speed), and number of DRAM modules, please refer to "Memory Support List" for more information.)
Maximum Memory	up to 256 GB (64 GB single DIMM capacity) of system memory

Graphics

Graphics	Integrated Graphics Processor with AMD Radeon Graphics support: - 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz * Support for HDMI 2.1 version and HDCP 2.3. * Support for native HDMI 2.1 TMDS compatible ports. - 1 x Front HDMI port, supporting a maximum resolution of 1920x1080@30 Hz * Support for HDMI 1.4 version (Graphics specifications may vary depending on CPU support.)

Connector & Ports

HDMI	1 x HDMI port
USB (s)	CPU+ASMedia USB4 controller: - 2 x USB4 USB Type-C ports on the back panel CPU: - 1 x USB 3.2 Gen 2 Type-A port (red) on the back panel Chipset: - 1 x USB Type-C® port with USB 3.2 Gen 2x2 support, available through the internal USB header - 2 x USB 3.2 Gen 2 Type-A ports (red) on the back panel - 8 x USB 3.2 Gen 1 ports (4 ports on the back panel, 4 ports available through the internal USB headers) - 6 x USB 2.0/1.1 ports (2 ports on the back panel, 4 ports available through the internal USB headers)
LAN Port (s)	Realtek 2.5GbE LAN chip (2.5 Gbps/1 Gbps/100 Mbps)
Wireless Communication module	Qualcomm Wi-Fi 7 QCNCM865 - 802.11a, b, g, n, ac, ax, be, supporting 2.4/5/6 GHz carrier frequency bands - BLUETOOTH 5.3 - Support for 11be 320MHz wireless standard (Actual data rate may vary depending on environment and equipment.) * Wi-Fi 7 features require Windows 11 SV3 to function properly. (There is no support driver for Windows 10.) ** Wi-Fi 7 channels on 6 GHz band availability depends on individual country's regulations.

Information

Supported Storage	1 x M.2 connector (M2A_CPU), integrated in the CPU, supporting Socket 3, M key, type 25110/22110/2580/2280 SSDs: AMD Ryzen™ 9000/7000 Series Processors support PCIe 5.0 x4/x2 SSDs AMD Ryzen™ 8000 Series-Phoenix 1 Processors support PCIe 4.0 x4/x2 SSDs AMD Ryzen™ 8000 Series-Phoenix 2 Processors support PCIe 4.0 x4/x2 SSDs 2 x M.2 connectors (M2B_CPU, M2C_CPU), integrated in the CPU, supporting Socket 3, M key, type 22110/2280 SSDs: AMD Ryzen™ 9000/7000 Series Processors support PCIe 5.0 x4/x2 SSDs * The M2B_CPU and M2C_CPU connectors will become unavailable when using the AMD Ryzen™ 8000 Series-Phoenix 1/Phoenix 2 Processors. 1 x M.2 connector (M2D_SB), integrated in the Chipset, supporting Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSDs 4 x SATA 6Gb/s connectors RAID 0, RAID 1, RAID 5, and RAID 10 support for NVMe SSD storage devices
RAID	RAID 0, RAID 1, RAID 5, and RAID 10 support for NVMe SSD storage devices * RAID 5 is only available on AMD Ryzen™ 9000 Series Processors. RAID 0, RAID 1, and RAID 10 support for SATA storage devices
Audio	Realtek ALC1220 CODEC * The back panel line out jack supports DSD audio. High Definition Audio 2/4/5.1/7.1-channel * You can change the functionality of an audio jack using the audio software. To configure 7.1-channel audio, access the audio software for audio settings. Support for S/PDIF Out

Information

Internal I/O Ports	1 x 24-pin ATX main power connector 2 x 8-pin ATX 12V power connectors 1 x CPU fan header 1 x CPU fan/water cooling pump header 4 x system fan headers 2 x system fan/water cooling pump headers 3 x addressable RGB Gen2 LED strip headers 1 x RGB LED strip header 4 x SATA 6Gb/s connectors 4 x M.2 Socket 3 connectors 1 x front panel header 1 x front panel audio header 1 x USB Type-C® header, with USB 3.2 Gen 2x2 support 2 x USB 3.2 Gen 1 headers 2 x USB 2.0/1.1 headers 1 x noise detection header 1 x HDMI port (Note) 1 x Trusted Platform Module header (For the GC-TPM2.0 SPI/GC-TPM2.0 SPI2.0/GC-TPM2.0 SPI V2 module only) 1 x power button 1 x reset button 2 x temperature sensor headers 1 x reset jumper 1 x Clear CMOS jumper Back Panel Connectors 1 x Q-Flash Plus button 2 x USB 2.0/1.1 ports 1 x HDMI port (Note) 4 x USB 3.2 Gen 1 ports 2 x USB4® USB Type-C® port (DisplayPort (Note)) 3 x USB 3.2 Gen 2 Type-A ports (red) 1 x RJ-45 port 2 x antenna connectors (2T2R) 1 x optical S/PDIF Out connector 2 x audio jacks
TPM (Trusted Platform Module)	1 x Trusted Platform Module header (For the GC-TPM2.0 SPI/GC-TPM2.0 SPI2.0/GC-TPM2.0 SPI V2 module only)

Others

Special Features	Support for GIGABYTE Control Center (GCC) * Available applications in GCC may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications. Support for Q-Flash Support for Q-Flash Plus Support for Smart Backup
Bundled Software	Norton Internet Security (OEM version) LAN bandwidth management software

Information

Warranty Information

Manufacturing Warranty	3 Years