

169.00 EUR  
incl. 19% VAT, plus [shipping](#)

- Gigabyte Features !
- 2x M.2 slot !
- USB Type-C !
- PCIe 4.0 !



- X3D Turbo Mode : Unleash new era gaming performance DDR5 OC up to 8200MT/s
- AMD Socket AM5 : Supports AMD Ryzen™ 9000 / 8000 / 7000 Series Processors
- Digital twin 10+2+2 phases VRM solution
- Dual Channel DDR5 : 4\*DIMMs with AMD EXPO™Memory Module Support
- WIFI EZ-Plug : Quick and easy design for Wi-Fi antenna installation
- EZ-Latch Plus : PCIe and M.2 slots with Quick Release & Screwless Design
- EZ-Latch Click : M.2 heatsinks with screwless design Friendly UI : Multi-Theme, AIO Fan Control, and Q-Flash Auto Scan in BIOS and SW
- Ultra-Fast Storage : 2\*M.2 slots
- Efficient Thermal : VRM Thermal Armor Advanced & M.2 Thermal Guard Ext.
- Fast Networking : 2.5GbE LAN & Wi-Fi 6E with directional Ultra-high gain antenna
- Extended Connectivity : HDMI, Displayport
- PCIe UD Slot : PCIe x16 slots with 10X strength for graphics card & Better Heat dissipation effect

#### Prozessor

AMD Socket AM5, support for:  
AMD Ryzen™ 9000 Series Processors/  
AMD Ryzen™ 8000 Series Processors/  
AMD Ryzen™ 7000 Series Processors  
(Go to GIGABYTE's website for the latest CPU support list.)  
AMD B840

#### Chipset

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      | Support for DDR5 8200(O.C) / 8000(O.C) / 7950(O.C) / 7900(O.C) / 7800(O.C) / 7600(O.C.) / 7400(O.C.) / 7200(O.C.) / 7000(O.C.) / 6800(O.C.) / 6600(O.C.) / 6400(O.C) / 6200(O.C) / 6000(O.C) / 5800(O.C) / 5600(O.C) / 5200 / 4800 / 4400 MT/s memory modules.                                                                                                                                                                                                                                                                                                                                   |
| <b>Memory</b>                        | 4 x DDR5 DIMM sockets supporting up to 256 GB (64 GB single DIMM capacity) of system memory<br>Dual channel memory architecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                      | Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules<br>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" on GIGABYTE's website for more information.)<br>Integrated Graphics Processor with AMD Radeon™ Graphics support:<br>- 1 x DisplayPort, supporting a maximum resolution of 3840x2160@144 Hz<br>* Support for DisplayPort 1.4 version and HDR. |
| <b>Onboard Graphics</b>              | - 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz<br>* Support for HDMI 2.1 version, HDCP 2.3, and HDR.<br>** Support for native HDMI 2.1 TMDS compatible ports.                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                      | (Graphics specifications may vary depending on CPU support.)<br>Realtek® Audio CODEC<br>High Definition Audio<br>2/4/5.1/7.1-channel                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Audio</b>                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>LAN</b>                           | Realtek® 2.5GbE LAN chip (2.5 Gbps/1 Gbps/100 Mbps)<br>Realtek® Wi-Fi 6E RTL8852CE<br>- WIFI a, b, g, n, ac, ax, supporting 2.4/5/6 GHz carrier frequency bands<br>- BLUETOOTH 5.3<br>- Support for 11ax 160MHz wireless standard<br>(Actual data rate may vary depending on environment and equipment.)                                                                                                                                                                                                                                                                                         |
| <b>Wireless Communication module</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

**Expansion Slots**

1 x M.2 connector (M2A\_CPU), integrated in the CPU, supporting Socket 3, M key, type 2580/2280 SSDs:  
AMD Ryzen™ 9000/7000 Series Processors support PCIe 4.0 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  
1 x M.2 connector (M2B\_CPU), integrated in the CPU, supporting Socket 3, M key, type 22110/2280 SSDs:  
AMD Ryzen™ 9000/7000 Series Processors support PCIe 4.0 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 x2 SSDs  
4 x SATA 6Gb/s connectors  
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.

**Storage Interface**

RAID 0, RAID 1, and RAID 10 support for SATA storage devices  
CPU:  
1. 1 x M.2 connector (Socket 3, M key, type 2260/2280/22110 PCIe 4.0 x4/x2 SSD support) (M2P\_CPU)\*  
\*Supported by 11th Generation processors only.  
Chipset:  
1. 2 x M.2 connector (Socket 3, M key, type 2260/2280/22110 SATA and PCIe 3.0 x4/x2 SSD support) (M2A\_SB) (M2M\_SB)  
2. 6 x SATA 6Gb/s connectors  
Support for RAID 0, RAID 1, RAID 5, and RAID 10  
\* Refer to "1-7 Internal Connectors," for the installation notices for the M.2 and SATA connectors.  
Intel® Optane™ Memory Ready

**USB**

CPU:  
- 1 x USB Type-C® port on the back panel, with USB 3.2 Gen 1 support  
- 2 x USB 3.2 Gen 1 ports on the back panel  
CPU+USB 2.0 Hub:  
- 4 x USB 2.0/1.1 ports on the back panel  
Chipset:  
- 1 x USB Type-C® port with USB 3.2 Gen 1 support, available through the internal USB header  
- 1 x USB 3.2 Gen 2 Type-A port (red) on the back panel  
- 2 x USB 3.2 Gen 1 ports available through the internal USB header  
- 4 x USB 2.0/1.1 ports available through the internal USB headers

## Internal I/O Connectors

- 1 x 24-pin ATX main power connector
- 1 x 8-pin ATX 12V power connector
- 1 x CPU fan header
- 1 x CPU fan/water cooling pump header
- 3 x system fan headers
- 1 x system fan/water cooling pump header
- 3 x addressable RGB Gen2 LED strip headers
- 1 x RGB LED strip header
- 2 x M.2 Socket 3 connectors
- 4 x SATA 6Gb/s connectors
- 1 x front panel header
- 1 x front panel audio header
- 1 x USB Type-C® header, with USB 3.2 Gen 1 support
- 1 x USB 3.2 Gen 1 header
- 2 x USB 2.0/1.1 headers
- 1 x Trusted Platform Module header (For the GC-TPM2.0 SPI/GC-TPM2.0 SPI 2.0/GC-TPM2.0 SPI V2 module only)
- 1 x reset button
- 1 x reset jumper
- 1 x Clear CMOS jumper
- 1 x DisplayPort\*
- 1 x HDMI port\*
- 1 x PS/2 keyboard/mouse port
- 1 x Q-Flash Plus button
- 4 x USB 2.0/1.1 ports
- 2 x USB 3.2 Gen 1 ports
- 1 x USB 3.2 Gen 2 Type-A port (red)
- 1 x USB Type-C® port, with USB 3.2 Gen 1 support
- 1 x RJ-45 port
- 2 x antenna connectors (2T2R)
- 3 x audio jacks

## Back Panel Connectors

\* Actual support may vary by CPU.

## I/O Controller

iTE® I/O Controller Chip

Voltage detection

Temperature detection

## H/W Monitoring

Fan speed detection

Water cooling flow rate detection

Fan fail warning

Fan speed control

1 x 256 Mbit flash

## BIOS

Use of licensed AMI UEFI BIOS

PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0

Support for GIGABYTE Control Center (GCC)

## Unique Features

Support for Q-Flash Plus

Support for Q-Flash

Support Smart Backup

Norton® Internet Security (OEM version)

## Bundle Software

LAN bandwidth management software

## Operating System

Support for Windows 11 64-bit

Support for Windows 10 64-bit

**Form Factor**

Micro ATX Form Factor; 24.4cm x 24.4cm