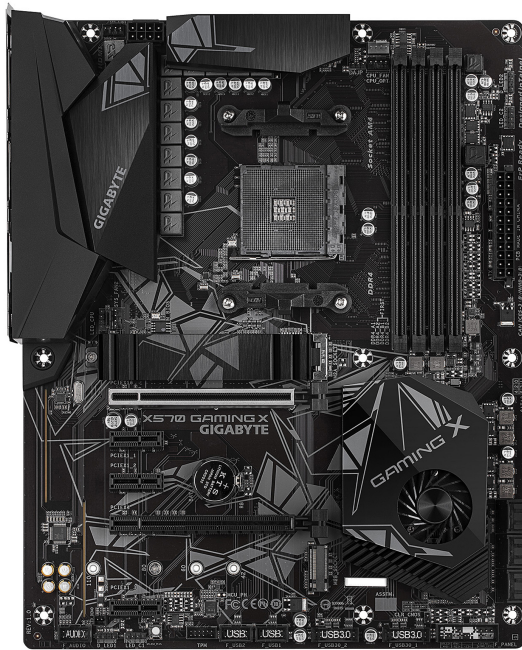


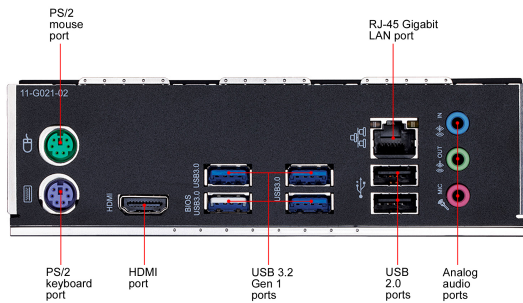
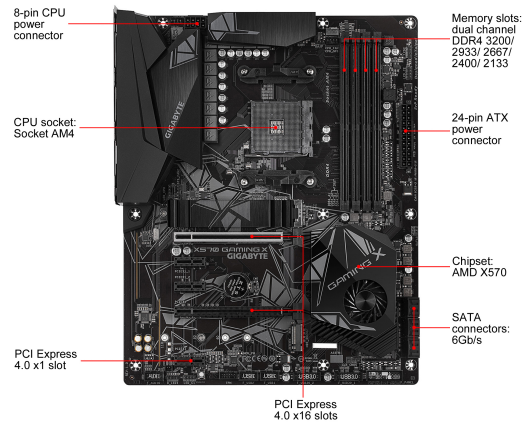


GIGABYTE X570 GAMING AMD X570 ATX Motherboard

\$179.95

Product Images





Short Description

Take your gaming experience to the next level with the Gigabyte X570 GAMING X AM4 ATX Motherboard. Designed for gamers, enthusiasts, and content creators, this motherboard is powered by the AMD X570 chipset and supports 2nd and 3rd generation AMD Ryzen processors with the AM4 socket. It takes full advantage of the large PCIe 4.0 data bandwidth to deliver high performance for tasks such as video editing, live stream broadcasts, and more. Up to 128GB of dual-channel DDR4 RAM, reaching 4000 MHz when overclocked, can be installed across four memory slots.

Description

Take your gaming experience to the next level with the Gigabyte X570 GAMING X AM4 ATX Motherboard. Designed for gamers, enthusiasts, and content creators, this motherboard is powered by the AMD X570 chipset and supports 2nd and 3rd generation AMD Ryzen processors with the AM4 socket. It takes full advantage of the large PCIe 4.0 data bandwidth to deliver high performance for tasks such as video editing, live stream broadcasts, and more. Up to 128GB of dual-channel DDR4 RAM, reaching 4000 MHz when

overclocked, can be installed across four memory slots. The ATX motherboard also features advanced cooling and supports up to two M.2 SSDs and six SATA III storage drives, which can be put into RAID 0, 1, or 10 configurations. Its three PCIe 4.0 x16 slots can accommodate 2-Way and Quad-GPU AMD CrossFireX configurations to maximize your system's graphical capabilities for high frame rates, connecting 4K monitors, and faster video rendering times. Alternatively, the built-in HDMI port allows you to take advantage of integrated CPU graphics. Three additional PCIe 4.0 x1 slots are available for compatible expansion cards.

In addition to having a Gigabit Ethernet port for playing online games and streaming video, the X570 GAMING X delivers deep and immersive 5.1-channel surround sound through the Realtek ALC887 audio codec. You can customize your computing experience using the addressable RGB headers to connect light strips, which can be synced with other Gigabyte RGB Fusion 2.0-compatible peripherals such as mice and keyboards using the desktop software or mobile app. Windows 10 64-bit is required to take advantage of all the motherboard's features.



Features:

- Support for Ryzen 5000 Series with BIOS UPDATE
- Supports AMD Ryzen 5000 Series / 3rd Gen Ryzen/2nd Gen Ryzen / 3rd Gen Ryzen with Radeon Vega Graphics/2nd Gen Ryzen with Radeon Vega Graphics/Ryzen with Radeon Vega Graphics Processors
- Dual Channel ECC/Non-ECC Unbuffered DDR4, 4 DIMMs
- 10+2 Phases Digital VRM Solution
- Dual Ultra-Fast NVMe PCIe 4.0/3.0 x4 M.2 with Single Thermal Guard
- High Quality Audio Capacitors and Audio Noise Guard
- Realtek 8118 LAN
- RGB FUSION 2.0 with Multi-Zone Addressable LED Light Show Design
- Smart Fan 5 - Hybrid Fan Headers with FAN STOP and Noise Detection
- Integrated I/O Shield
- Q-Flash Plus Update BIOS Without Installing CPU, Memory, GPU

AMD X570 Chipset

The AMD X570 chipset is designed around third-generation AMD Ryzen 3000-series processors. Along with multiple noteworthy improvements, the design supports PCIe 4.0, which has roughly double the bandwidth of PCIe 3.0. This benefits graphics cards, networking devices, NVMe drives, and more.

Storage and Memory

- Two M.2 slots are available, supporting up to type 22110 SATA and PCIe NVMe SSDs.
- Six SATA III headers are available for hard drives and 2.5" SSDs.
- RAID 0, 1, and 10 configurations are supported.
- Up to 128GB of dual-channel DDR4-4000 (OC) memory can be installed across four slots.

AMD StoreMI Storage Acceleration

AMD StoreMI technology accelerates storage by combining the speed of SSDs with the high capacity of mechanical hard disk drives. This software utility automatically caches frequently accessed files to your SSD drives or within up to 2GB of designated RAM for significantly faster load speeds. It also allows you to combine multiple drives into one drive letter to help keep your files organized and quickly accessible.

Enhanced Cooling

- This motherboard includes large surface heatsinks with a chipset fan to optimize thermal efficiency.
- A thick thermal pad provides additional cooling performance for overclocking.
- Thermal guards help to quickly dissipate heat from the M.2 solid-state drives to avoid speed throttling.
- Smart Fan 5 allows users to interchange fan headers to correspond with the thermal sensors located across the motherboard so that the system stays cool while maintaining a high level of performance for games and other demanding applications.
- Fan Stop lets you to take control of your computer's noise level by allowing specified fans to halt when the system drops to a designated temperature level. These settings may be customized according to your preferences.

- Hybrid Fan Headers automatically detect the connected liquid- or air-cooling systems, enabling Smart Fan 5 to monitor information such as flow-rate.

Performance Features

The X570 GAMING X features an all-digital PWM controller with Lower RDS(on) MOSFETs, which includes 10+2 phases that efficiently delivers power to critical components.

Designed for Durability

- A stainless steel shield reinforces the PCIe connectors, providing extra strength to support heavy graphics cards.
- Solid plated ATX 24-pin and 8-pin power connectors deliver a stable power supply to key components.
- An integrated I/O shield allows for easier installation.
- With the Q-Flash Plus feature, you can update the BIOS without having to install a CPU or video card. Simply copy the new BIOS file to a USB flash drive, insert it into the designated port, then press the Q-Flash button.

AMD CrossFireX Support

Installing multiple graphics cards will enhance the computer's performance for demanding tasks such as CAD, 3D rendering, video editing, and more. This motherboard supports Quad-GPU and 2-Way AMD CrossFireX configurations.

Immersive Audio

- The Realtek ALC887 audio codec provides vibrant 5.1-channel surround sound to your speakers.
- High-quality, durable capacitors help to deliver clear sound to audio equipment.
- A noise guard separates the board's sensitive audio components from areas that may cause interference and noise pollution.

Network Performance

The Gigabit Ethernet port provides a fast network connection with high-speed data transfers using compatible devices.

RGB Fusion 2.0 Lighting

With Gigabyte's RGB Fusion 2.0 technology, you can customize your computer by installing RGB lighting strips alongside compatible components and peripherals for incredible effects. Lighting profiles that cover your entire system, including the motherboard, video card, and CPU, can be configured and controlled using the Gigabyte RGB Fusion 2.0 desktop software or mobile app.

Specifications

Specifications:

Model

Brand GIGABYTE

Model X570 GAMING X

Supported CPU

CPU Socket Type AM4

CPU Type AMD Socket AM4, support for: AMD Ryzen 5000 Series / 3rd Gen Ryzen/2nd Gen Ryzen / 3rd Gen Ryzen with Radeon Vega Graphics/2nd Gen Ryzen with Radeon Vega Graphics/Ryzen with Radeon Vega Graphics Processors
* Support for Ryzen 5000 Series with BIOS UPDATE. Refer to GIGABYTE website for CPU support list.

Chipsets

Chipset AMD X570

Memory

Number of Memory Slots 4×288pin

Memory Standard 3rd Generation AMD Ryzen processors:
Support for DDR4 4000(O.C.)/ 3866(O.C.)/ 3800(O.C.)/ 3733(O.C.)/ 3600(O.C.)/ 3466(O.C.)/ 3400(O.C.)/ 3333(O.C.)/ 3300(O.C.)/ 3200/ 2933/ 2667/ 2400/ 2133 MHz memory modules
2nd Generation AMD Ryzen processors / 2nd Generation AMD Ryzen with Radeon Vega Graphics processors / AMD Ryzen with Radeon Vega Graphics processors:
Support for DDR4 3200(O.C.)/ 2933/ 2667/ 2400/ 2133 MHz memory modules

Maximum Memory Supported 128GB

Channel Supported Dual Channel

Expansion Slots

PCI Express 4.0 x16 Integrated in the CPU (PCIEX16):
3rd Generation AMD Ryzen processors:
1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x16
2nd Generation AMD Ryzen processors:
1 x PCI Express x16 slot, supporting PCIe 3.0 and running at x16
* For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot.
2nd Generation AMD Ryzen with Radeon Vega Graphics processors / AMD Ryzen with Radeon Vega Graphics processors:
1 x PCI Express x16 slot, supporting PCIe 3.0 and running at x8

Integrated in the Chipset (PCIEX4/PCIEX1)
1 x PCI Express x16 slot, supporting PCIe 4.0*/3.0 and running at x4 (PCIEX4)
* For 3rd Generation AMD Ryzen processors only.

PCI Express x1 3 x PCI Express x1 slots, supporting PCIe 4.0*/3.0
* For 3rd Generation AMD Ryzen processors only.

Storage Devices

SATA 6Gb/s 6 x SATA 6Gb/s

M.2 Integrated in the CPU (M2A_SOCKET):
3rd Generation AMD Ryzen processors:
1 x M.2 connector (Socket 3, M key, type 2242/2260/2280/22110 SATA and PCIe 4.0 x4/x2 SSD support)
2nd Generation AMD Ryzen processors / 2nd Generation AMD Ryzen with Radeon Vega Graphics processors / AMD Ryzen with Radeon Vega Graphics processors:
1 x M.2 connector (Socket 3, M key, type 2242/2260/2280/22110 SATA and PCIe 3.0 x4/x2 SSD support)

Integrated in the Chipset (M2B_SOCKET):
1 x M.2 connector (Socket 3, M key, type 2242/2260/2280/22110 SATA and PCIe 4.0*/3.0 x4/x2 SSD support)
* For 3rd Generation AMD Ryzen processors only.

SATA RAID 0/1/10

Onboard Video

Onboard Video Chipset Integrated Graphics Processor:

1 x HDMI port, supporting a maximum resolution of 4096x2160@60Hz
* Support for HDMI 2.0 version, HDCP 2.2, and HDR.

Maximum shared memory of 16GB

Note: For 2nd Generation AMD Ryzen with Radeon Vega Graphics processors / AMD Ryzen with Radeon Vega Graphics processors only.

Onboard Audio

Audio Chipset Realtek ALC887

Audio Channels 2/4/5.1-channel

Onboard LAN

LAN Chipset Realtek GbE LAN chip

Max LAN Speed 10/100/1000Mbps

Rear Panel Ports

Back I/O Ports 1 x PS/2 keyboard port
1 x PS/2 mouse port
1 x HDMI port
4 x USB 3.2 Gen 1 ports
2 x USB 2.0/1.1 ports
1 x RJ-45 port
3 x audio jacks

Internal I/O Connectors

Onboard USB	2 x USB 3.2 Gen 1 headers 2 x USB 2.0/1.1 headers
	1 x CPU fan header 1 x water cooling CPU fan header 2 x system fan headers 1 x CPU cooler LED strip/RGB LED strip header 2 x addressable LED strip headers
Other Connectors	2 x RGB LED strip headers 1 x front panel header 1 x front panel audio header 1 x Trusted Platform Module (TPM) header (2x6-pin, for the GC-TPM2.0_S module only) 1 x Clear CMOS jumper 1 x Q-Flash Plus button

Physical Spec

Form Factor	ATX
LED Lighting	RGB
Dimensions (W x L)	12.0" x 9.6"
Power Pin	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector

Features

Multi-Graphics
Technology:
Support for
AMD Quad-
GPU CrossFire
and 2-Way
AMD
CrossFire
technologies
Note: For 3rd
Generation
AMD Ryzen
processors /
2nd
Generation
AMD Ryzen
processors
only.

I/O Controller:
iTE I/O
Controller
Chip

H/W
Monitoring:
Voltage
detection
Temperature
detection
Fan speed
detection
Water cooling
flow rate
detection
Overheating
warning
Fan fail
warning
Fan speed
control
* Whether the
fan (pump)
speed control
function is
supported will
depend on
the fan
(pump) you
install.

BIOS:
1 x 128 Mbit
flash
Use of
licensed AMI
UEFI BIOS
PnP 1.0a, DMI
2.7, WfM 2.0,
SM BIOS 2.7,
ACPI 5.0

Features

Unique
Features:
Support for
APP Center
* Available
applications in
APP Center
may vary by
motherboard
model.
Supported
functions of
each
application
may also vary
depending on
motherboard
specifications.
@BIOS
AutoGreen
Cloud Station
EasyTune
Fast Boot
Game Boost
ON/OFF
Charge
RGB Fusion
Smart Backup
Smart
Keyboard
Smart Survey
System
Information
Viewer
USB Blocker
Support for Q-
Flash Plus
Support for Q-
Flash
Support for
Xpress Install

Bundled
Software:
Norton
Internet
Security (OEM
version)
Realtek 8118
Gaming LAN
Bandwidth
Control Utility

Operating
System:
Support for
Windows 10
64-bit

Additional Information

Brand	Gigabyte
SKU	X570 GAMING X
Weight	5.0000
Processor Manufacturer	AMD
Chipset	X570

