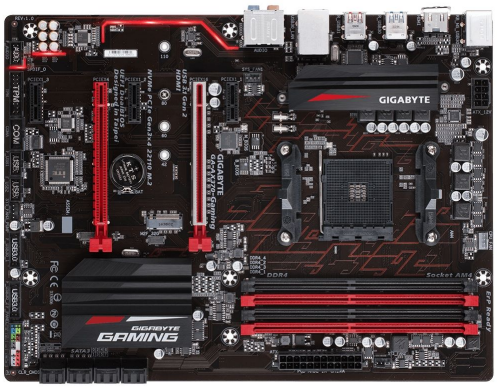
GA-AX370-GAMING

Gigabyte Aorus AX370-GAMING Socket AM4 ATX Motherboard with AMD X370 chipset

Product Overview

Gigabyte Aorus AX370-GAMING Socket AM4 ATX Motherboard, AMD Ryzen & 7th Generation A-series, AMD X370 chipset, 4x DDR4 DIMM sockets supporting up to 64 GB of system memory, High Definition Audio, Realtek GbE LAN chip (10/100/1000 Mbit), 1x PCI Express x16 slot, 1x PCI Express x16 slot running at x4, 3x PCI Express x1 slots, 1x M.2 connector, 8x SATA 6Gb/s connectors, 2x USB 3.1 Gen 2 Type-A ports (red) on the back panel, 4x USB 3.1 Gen 1 ports on the back panel, 6x USB 3.1 Gen 1 ports (2 ports on the back panel / 4 ports available through the internal USB headers), 1x PS/2 keyboard/mouse port, 1x HDMI port









Specifications

Overview:

GA-AX370-Gaming (rev. 1.x)

- Supports AMD Ryzen & 7th Generation A-series / Athlon Processors
- Dual Channel Non-ECC Unbuffered DDR4, 4 DIMMs
- Turbo B-Clock, Built-in Advanced Performance Tuning IC
- Fast 2 USB 3.1 Gen 2 with USB Type-A
- 2-Way CrossFire Multi-Graphics Support with Ultra Durable Metal Shielding over PCIe Slot
- Ultra-Fast PCIe Gen3 x4 M.2 with PCIe NVMe & SATA mode support

- High Quality Audio Capacitors and Audio Noise Guard with LED Trace Path Lighting
- Realtek Gigabit LAN with cFosSpeed Internet Accelerator Software
- Smart Fan 5 features 6 Temperature Sensors and 4 Hybrid Fan Headers
- GIGABYTE UEFI DualBIOS
- APP Center Including EasyTune and Cloud Station Utilities

Features:

AMD introduces the latest Ryzen 2000 series processors to provide the computing power for budget gaming need. GIGABYTE's full line of AMD AM4 chipset motherboards perfectly fit the latest AMD Ryzen 2000 series processors computing performance and integrated graphics output. Users can enjoy the benefits brought by AMD Ryzen 2000 series processors by just simply downloading and upgrading the latest BIOS .

Smart Fan 5
With Smart Fan 5 users can ensure that their gaming PC can maintain its performance while staying cool. Smart Fan 5 allows users to interchange their fan headers to reflect different thermal sensors at different locations on the motherboard. Not only that, with Smart Fan 5 more hybrid fan headers that support both PWM and Voltage mode fans have been introduced to make the motherboard more liquid cooling friendly.

All Hybrid Fan Pin Headers

- All Hybrid Fan Headers can automatically detect the type of cooling device whether it be fan or pump with different PWM or Voltage mode.
- Supports up to 2 amps with built-in overcurrent protection-a must for high-end high current fans.

Interoperable Sensors and Fans
Each fan can be customized to operate at different speeds according to any defined temperature source input (except the CPU fan).

Fan Curve
Customize fan curves based on specific temperatures with the intuitive graphical UI.

Choose from different modes, Quiet to Full Speed, to match your system usage scenario. For each fan or pump, you can use the intuitive fan curve to define trigger thresholds and corresponding fan speeds.

Enhanced BIOS Interface
The enhanced BIOS interface also has the advanced features seen in the Smart Fan 5 UI, such as: the ability to set triggers based on different temperature sensors on the board, fan curve definition and the temperature interval setting, which can prevent fan rotation noise caused by sudden temperature change-all without having to load Windows.

Realtek GbE LAN with cFosSpeed Internet Accelerator Networking
Realtek GbE LAN features cFosSpeed, a network traffic management application which helps to improve network latency and maintain low ping times to deliver better responsiveness in crowded LAN environments.

Fast Onboard Storage with NVMe

- PCIe Gen3 x4 110mm M.2 (Up to 32 Gb/s)
- GIGABYTE's M.2 solution offers considerably faster storage performance and support for both PCIe and SATA interfaces for M.2 SSD devices.

Fast USB 3.1 Gen 2 Solution
The latest USB 3.1 Gen 2 offers staggering 10Gb/s transfer speeds. 2x faster than USB 3.1 Gen 1 along with backwards compatibility with existing USB devices.

Turbo B-Clock

Built-in Advanced Performance Tuning IC
Turbo B-Clock Tuning IC in the GIGABYTE X370 series motherboards enable overclockers to have the ability to change their BCLK frequency to a desired value of their choice. With the new linear range adjustment option of the Tuning IC, ranges from 100MHz to 300MHz are now possible.

* Turbo B-Clock overclocking range may vary according to CPU capabilities.

Anti-Sulfur Resistor Design
Sulfur compounds in the air can penetrate tiny onboard resistors creating chemical change and causing these resistors to open or short. If either of these occurs the motherboard will fail to function. By equipping resistors with an Anti-Sulfur Design GIGABYTE gives Ultra Durable Motherboards a whole new meaning.

High Quality Onboard Audio Design
Delivers high quality sound resolution and sound expansion to create the most realistic sound effects for professional gamers.

The below photos are for reference only.

- Audio Noise Guard with LED Trace Path Lighting
- High-End Audio Components

Humidity Protection Glass Fabric PCB
There is nothing more harmful to the longevity of your PC than moisture, and most parts of the world experience moisture in the air as humidity at some point during the year. GIGABYTE motherboards have been designed to make sure that humidity is never an issue, incorporating a new Glass Fabric PCB technology that repels moisture caused by humid and damp conditions. Glass Fabric PCB technology uses a new PCB material which reduces the amount of space between the fiber weave, making it much more difficult for moisture to penetrate compared to traditional motherboard PCBs. This offers much better protection from short circuit and system malfunction caused by humid and damp conditions.

High Temperature Protection Lower RDS(on) MOSFETs Design
GIGABYTE motherboards use Low RDS(on) MOSFETs which reduce energy wastage through unnecessary residual heat dissipation. This all amounts to tangible energy savings which are beneficial for both end-users and the environment without impacting system performance.

Refreshed BIOS Easy, Smart, and Friendly
The BIOS is essential for users during initial setup to allow for the most optimal settings. With a new GUI and easier to use functionalities, GIGABYTE has been able to reinvent the BIOS to give users a better experience while setting up their new system.

GIGABYTE APP Center
The GIGABYTE APP Center gives you easy access to a wealth of GIGABYTE apps that help you get the most from your GIGABYTE motherboard. Using a simple, unified user interface, GIGABYTE APP Center allows you to easily launch all GIGABYTE apps installed on your system, check related updates online, and download the latest apps, drivers, and BIOS.

EasyTune
GIGABYTE's EasyTune is a simple and easy-to-use interface that allows users to fine-tune their system settings or adjust system and memory clocks and voltages in a Windows environment. With Smart Quick Boost, one click is all it takes to automatically overclock your system, giving an added performance boost when you need it the most.

Overclocking to Boost Your Frame Rates
Get the highest levels of performance from your PC with easy-to-use GIGABYTE overclocking features.

System Information Viewer
GIGABYTE System Information Viewer is a central location that gives you access to your current system status. Monitor components such as the clocks and processor, set your preferred fan speed profile, create alerts when temperatures get too high or record your system's behavior; these are the possibilities of the System Information Viewer.

@BIOS
The GIGABYTE @BIOS app allows you to update your system's BIOS from within Windows using a simple and slick graphical user interface. @BIOS can automatically download the latest version from the GIGABYTE servers or you can update your BIOS from a file on your computer. @BIOS also allows you to save your current BIOS to a file, recover your previous BIOS from an image and backup your BIOS to an image.

3D OSD
3D OSD automatically detects and displays your system information during games, allowing you to easily get a hold of your system information without switching between screens.

GIGABYTE Patented DualBIOS (UEFI) Design
GIGABYTE Ultra Durable motherboards feature GIGABYTE DualBIOS, an exclusive technology from GIGABYTE that protects arguably one of your PC's most crucial components, the BIOS. GIGABYTE DualBIOS means that your motherboard has both a 'Main BIOS' and a 'Backup BIOS', protecting users from BIOS failure due to virus, hardware malfunction, improper OC settings or power failure during the update process.

4K Ultra HD Support
4K resolution is the next technological milestone in high-definition content delivery, utilizing approximately 4,000 pixels on the horizontal axis, more than four times today's standard HD pixel density. GIGABYTE motherboards provide native 4K support with integrated AMD Radeon Graphics via HDMI.

HDMI - The Next Generation Multimedia Interface
HDMI is a High-Definition Multimedia Interface which provides up to 5Gb/s video transmitting bandwidth and 8-channel high quality audio all through a single cable. Able to transmit superior, uncompressed digital video and audio, HDMI ensures the crispest rendering of digital content up to 1080p without the quality losses associated with analog interfaces and their digital-to-analog conversion. In addition, HDMI is compatible with HDCP (High-bandwidth Digital Content Protection), allowing the playback of Blu-ray/HD DVD and other protected media content.

XSplit Gamecaster + Broadcaster: Cast Your Game Anytime, Anywhere
Now set up your stage and share the greatest gaming moments with XSplit Gamecaster + Broadcaster! Fully optimized social media integration is ready for real-time chats-keeping you notified yet focused in the game. It takes just one click to stream your gameplay to Twitch. Host your game like a pro!

*Free 14 days XSplit Gamecaster + Broadcaster Premium License.

TriDef SmartCam | Custom Stream Modding
To facilitate being the full streaming solution each GIGABYTE motherboard includes TriDef SmartCam software, you are now able to remove backgrounds without the hassle of using a green screen. Through the SmartCam application you can now apply live filters, and fully control your background, not only while streaming, but also through other video applications such as Skype.

*Free 1 month TriDef SmartCam License.

Specifications:

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Specifications

Product Code	GA-AX370-GAMING
CPU	AM4 Socket:
	1. AMD Ryzen processor
	2. AMD 7th Generation A-series/ Athlon processor
	(Please refer "CPU Support List" for more information.)
Chipset	1. AMD X370
Memory	1. 4 x DDR4 DIMM sockets supporting up to 64 GB of system memory
	2. Dual channel memory architecture
	3. Support for DDR4 3200(O.C.) / 2933(O.C.) / 2667* / 2400 / 2133 MHz memory modules
	* Support for higher than DDR4 2667 MHz may vary by CPU.
	4. Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules (operate in non-ECC mode)
	5. Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules
	6. Support for Extreme Memory Profile (XMP) memory modules
	(Please refer "Memory Support List" for more information.)
Onboard Graphics	Integrated Graphics Processor:
	1. 1 x HDMI port, supporting a maximum resolution of 4096x2160@24 Hz
	* Support for HDMI 1.4 version.
	2. Maximum shared memory of 2 GB
	* Actual support may vary by CPU.
Audio	1. Realtek ALC892 codec
	2. High Definition Audio
	3. 2/4/5.1/7.1-channel
	4. Support for S/PDIF Out
LAN	1. Realtek GbE LAN chip (10/100/1000 Mbit)

Expansion Slots	1. 1 x PCI Express x16 slot, running at x16 (PCIEX16)
	* For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot.
	* Actual support may vary by CPU.
	(The PCIEX16 slot conforms to PCI Express 3.0 standard.)
	2. 1 x PCI Express x16 slot, running at x4 (PCIEX4)
	3. 3 x PCI Express x1 slots
	* The PCIEX4 slot shares bandwidth with the PCIEX1_2 and PCIEX1_3 slots. The PCIEX4 slot operates at up to x2 mode when the PCIEX1_2/PCIEX1_3 slot is populated. The PCIEX4 slot operates at up to x4 mode when both of the PCIEX1_2 and PCIEX1_3 slots are empty.
	(The PCIEX4 and PCI Express x1 slots conform to PCI Express 2.0 standard.)
Storage Interface	1. 1 x M.2 connector (Socket 3, M key, type 2242/2260/2280/22110 SATA and PCIe x4*/x2 SSD support)
	* Actual support may vary by CPU.
	2. 8 x SATA 6Gb/s connectors
	3. Support for RAID 0, RAID 1, and RAID 10
	* Refer to "1-7 Internal Connectors, " for the installation notices for the M.2 and SATA connectors.
Multi-Graphics Technology	1. Support for AMD Quad-GPU CrossFire and 2-Way AMD CrossFire technologies
	* Actual support may vary by CPU.
USB	ASMedia USB 3.1 Gen 2 Controller:
	1. 2 x USB 3.1 Gen 2 Type-A ports (red) on the back panel
	CPU:
	1. 4 x USB 3.1 Gen 1 ports on the back panel
	Chipset:
	1. 6 x USB 3.1 Gen 1 ports (2 ports on the back panel, 4 ports available through the internal USB headers)
	2. 4 x USB 2.0/1.1 ports available through the internal USB headers

Internal I/O Connectors	1. 1 x 24-pin ATX main power connector
	2. 1 x 8-pin ATX 12V power connector
	3. 1 x CPU fan header
	4. 2 x system fan headers
	5. 1 x system fan/water cooling pump header
	6. 1 x M.2 Socket 3 connector
	7. 8 x SATA 6Gb/s connectors
	8. 1 x front panel header
	9. 1 x front panel audio header
	10. 1 x S/PDIF Out header
	11. 2 x USB 3.1 Gen 1 headers
	12. 2 x USB 2.0/1.1 headers
	13. 1 x serial port header
	14. 1 x Trusted Platform Module (TPM) header
	15. 1 x Clear CMOS jumper
Back Panel Connectors	1. 1 x PS/2 keyboard/mouse port
	2. 1 x HDMI port
	3. 2 x USB 3.1 Gen 2 Type-A ports (red)
	4. 6 x USB 3.1 Gen 1 ports
	5. 1 x RJ-45 port
	6. 1 x optical S/PDIF Out connector
	7. 6 x audio jacks (Center/Subwoofer Speaker Out, Rear Speaker Out, Side Speaker Out, Line In, Line Out, Mic In)
I/O Controller	1. iTE I/O Controller Chip
H/W Monitoring	1. Voltage detection
	2. Temperature detection
	3. Fan speed detection
	4. Overheating warning
	5. Fan fail warning
	6. Fan speed control
	* Whether the fan (pump) speed control function is supported will depend on the fan (pump) you install.
BIOS	1. 2 x 128 Mbit flash
	2. Use of licensed AMI UEFI BIOS
	3. Support for DualBIOS
	4. PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0

Unique Features	1. 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
	3D OSD
	Ambient LED
	AutoGreen
	BIOS Setup
	Cloud Station
	Color Temperature
	EasyTune
	Fast Boot
	Game Boost
	ON/OFF Charge
	Smart Backup
	Smart Keyboard
	Smart TimeLock
	System Information Viewer
	USB Blocker
	V-Tuner
	2. Support for Q-Flash
	3. Support for Xpress Install
Bundle Software	1. Norton Internet Security (OEM version)
	2. cFosSpeed
Operating System	1. Support for Windows 10 64-bit
	2. Support for Windows 7 64-bit
	* To support Windows 7 64-bit, you must install an AMD Summit Ridge & Bristol Ridge CPU.
	* Please download the "Windows USB Installation Tool" from GIGABYTE's website and install it before installing Windows 7.
Form Factor	1. ATX Form Factor, 30.5cm x 23.0cm
Remark	1. Due to different Linux support condition provided by chipset vendors, please download Linux driver from chipset vendors' website or 3rd party website.
	2. Most hardware/software vendors may no longer offer drivers to support Win9X/ME/2000/XP. If drivers are available from the vendors, we will update them on the GIGABYTE website.

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/GA-AX370-GAMING-Gigabyte-Aorus-AX370-GAMING-Socket-AM4-ATX-Motherboard-with-AMD-X370-p-188802.php

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