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Product Specification Sheet

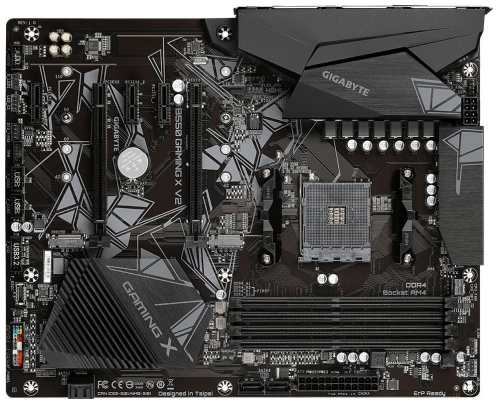
GA-B550-GAMING-X V2

Gigabyte AMD B550 Gaming X V2 AMD AM4 3rd Gen Ryzen ATX Motherboard

Product Overview

Gigabyte AMD B550 Gaming X V2 AMD AM4 3rd Gen Ryzen ATX Motherboard, AMD B550 Chipset, 4 x DDR4 DIMM sockets, High definition audio, Realtek GbE LAN Chip, 1 x PCI Express x16 slot (PCIEX16), 1 x PCI Express x16 slot, 3 x PCI Express x1 slots, 1 x M.2 connector, 4 x SATA 6Gb/s connectors, 1 x USB 3.2 Gen 2 Type-A Port, 3 x USB 3.2 Gen 1 ports











Specifications

Overview:

B550 Gaming X V2 (rev. 1.x)

AMD B550 Gaming Motherboard with 10+3 Phases Digital Twin Power Design, Enlarged Surface Heatsinks, PCIe 4.0 x16 Slot, Dual PCIe 4.0/3.0 x4 M.2, GIGABYTE Gaming LAN with Bandwidth Management, Front USB Type-C, RGB FUSION 2.0, Q-Flash Plus

- Supports AMD Ryzen 5000 Series/ 3rd Gen Ryzen and 3rd Gen Ryzen with Radeon Graphics Processors
- Dual Channel ECC/ Non-ECC Unbuffered DDR4, 4 DIMMs
- 10+3 Phases Digital Twin Power Design with Low RDS(on) MOSFETs
- Ultra Durable PCIe 4.0 Ready x16 Slot
- Dual Ultra-Fast NVMe PCIe 4.0/3.0 x4 M.2 Connectors
- GIGABYTE Exclusive 8118 Gaming LAN with Bandwidth Management
- Front USB 3.2 Gen1 Type-C and HDMI & DVI-D for Multiple Display
- High Quality Audio Capacitors and Audio Noise Guard for Ultimate Audio Quality
- RGB FUSION 2.0 support Addressable LED & RGB LED Strips
- Smart Fan 5 Features Multiple Temperature Sensors, Hybrid Fan Headers with FAN STOP
- Q-Flash Plus Update BIOS without Installing the CPU, Memory and Graphics Card
- Anti-Sulfur Resistors Design

Features:

AMD StoreMI Technology

GIGABYTE B550 motherboards maximize your PC's potential with AMD StoreMI technology. StoreMI accelerates traditional storage devices to reduce boot times and enhance the overall user experience. This easy-to-use utility combines the speed of SSDs with the high capacity of HDDs into a single drive, enhances the read/write speeds of the device to match that of SSDs, bolsters data performance for incredible value, and transforms the everyday PC to a performance driven system.

The benefits of AMD StoreMI:

- Making the PC experience fast, smooth and easy
- Optimizing computer responsiveness from system boot to application launch
- Offering SSD performance with HDD capacity at an affordable cost
- Quickly accessing key files by automatically learning users' computing behaviors

PERFORMANCE - 10*+3 Phases Digital Twin Power Design

B550 motherboard use a 10+3 phases Digital Twin Power Design with Low RDS(on) MOSFETs to support the 3rd Gen AMD Ryzen CPUs by offering incredible precision in delivering power to the motherboard's most power-hungry and energy-sensitive components as well as delivering enhanced system performance and ultimate hardware scalability.

Benefits of Low RDS(on) MOSFETs

- Optimized gate charge to minimize switching losses.
- Lower temperature, smaller size, better thermal characteristics.

CONNECTIVITY

USB Type-C Front Panel Connector

Equipped with next generation connectivity, AORUS Gaming Motherboards already support the chassis of the future. The onboard USB Type-C header for USB 3.2 Gen1 makes access convenient when connecting a USB 3.2 Gen1 device or charging your mobile device.

Dual NVMe PCIe 4.0*/3.0 M.2 Connectors

With NVMe PCIe 4.0*/3.0 x4 and PCIe 3.0 x4 M.2 connectors onboard, GIGABYTE Motherboards bring users to experience NVMe mode or SATA mode connectivity for M.2 SSD devices. Delivering up to 64 Gb/s data transfer speed, the dual M.2 connectors design provides an ideal storage solution while also supporting in RAID modes.

*Actual support may vary by CPU.

Exclusive Realtek 8118 Gaming LAN - High Speed Gigabit LAN with Automatic Bandwidth Allocation

Realtek 8118 LAN is a high performance and friendly network chip for gaming players with automatic bandwidth allocation to ensure the highest network priority of the game or application. It can provide users the most comprehensive features and the fastest and smoothest Internet experience.

HDMI 2.1 for 4K / 60P / 21:9 / HDCP 2.3 Support

HDMI 2.1, which is backwards compatible with HDMI 2.0/ 1.4 and offering 48 Gb/s of bandwidth - twice times more than previous generation. This unlocks the potential for users to transfer multiple video streams, as well as a native cinematic 21:9 ratio (which most movies are shot in), Full HDR and HDCP 2.3 support, to offer the best visual experience for viewers.

Note: Only New Gen AMD Ryzen with Radeon Graphics processors support displaying function.

Advanced Thermal Design - 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.

Intelligent Fan Control Design

With an integrated intuitive user interface, the RGB Fusion 2.0 provides you a better solution for customizing the lighting effects across all supported devices. From motherboards, graphics cards to the peripheral products, you can personalize your gaming rig with your own style and show off your build by sharing the profiles. In addition, the new gaming mode makes the lighting effects interactive with selected games to bring you the most immersive gaming experience.

GIGABYTE Patented Double Locking Bracket - Solid Pin Power Connectors

B550 motherboards feature solid plated ATX 12V 8pin power connectors for offering stable power supply while CPU overloading.

Refreshed BIOS

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.

* Photos are for reference only. Product features may vary by model.

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!

Specifications:

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Specifications	
Product Code	GA-B550-GAMING-X V2
CPU	1. AMD Socket AM4, support for: AMD Ryzen 5000 Series/ 3rd Gen Ryzen and 3rd Gen Ryzen with Radeon Graphics Processors
Chipset	1. AMD B550

Memory	1. 4 x DDR4 DIMM sockets supporting up to 128 GB (32 GB single DIMM capacity) of system memory
	2. AMD Ryzen 5000 series processors:
	Support for DDR4 4266(O.C.) / 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
	3. 3rd Gen AMD Ryzen Processors:
	Support for DDR4 4400(O.C.) / 4000(O.C.) / 3600(O.C.) / 3333(O.C.) /3200/2933/2667/2400/2133 MHz memory modules
	4. 3rd Gen AMD Ryzen with Radeon Graphics processors:
	Support for DDR4 4733(O.C.) / 4600(O.C.) / 4400(O.C.) / 4000(O.C.) / 3600(O.C.) / 3333(O.C.) /3200/2933/2667/2400/2133 MHz memory modules
	5. Dual channel memory architecture
	6. Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules
	7. Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules
	8. Support for Extreme Memory Profile (XMP) memory modules
Onboard Graphics	Integrated in the 3rd Generation AMD Ryzen with Radeon Graphics processors:
	1. 1 x DVI-D port, supporting a maximum resolution of 1920x1200@60 Hz
	* The DVI-D port does not support D-Sub connection by adapter.
	2. 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz
	* Support for HDMI 2.1 version, HDCP 2.3, and HDR.
	Maximum shared memory of 16 GB
Audio	1. Realtek Audio CODEC
	2. High Definition Audio
	3. 2/4/5.1/7.1-channel
	* To configure 7.1-channel audio, you need to open the audio software and select Device advanced settings > Playback Device to change the default setting first. Please visit GIGABYTE's website for details on configuring the audio software.
LAN	1. Realtek GbE LAN chip (1000 Mbit/100 Mbit)
Expansion Slots	1 x PCI Express x16 slot (PCIEX16), integrated in the CPU:
	1. 3rd Generation AMD Ryzen processors support PCIe 4.0 x16 mode
	2. 3rd Generation AMD Ryzen with Radeon Graphics processors support PCIe 3.0 x16 mode
	* For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot.
	1 x PCI Express x16 slot (PCIEX2), integrated in the Chipset:
	1. Supporting PCIe 3.0 x2 mode
	3 x PCI Express x1 slots (PCIEX1_1, PCIEX1_2, PCIEX1_3), integrated in the Chipset:
	1. Supporting PCIe 3.0 x1 mode

Storage Interface	1 x M.2 connector (M2A_CPU), integrated in the CPU, supporting Socket 3, M key, type 2242/2260/2280/22110 SSDs:
	1. 3rd Generation AMD Ryzen processors support SATA and PCIe 4.0 x4/x2 SSDs
	2. 3rd Generation AMD Ryzen with Radeon Graphics processors support SATA and PCIe 3.0 x4/x2 SSDs
	1 x M.2 connector (M2B_SB), integrated in the Chipset, supporting Socket 3, M key, type 2242/2260/2280/22110 SSDs:
	1. Supporting SATA and PCIe 3.0 x4/x2 SSDs
	4 x SATA 6Gb/s connectors, integrated in the Chipset:
	1. Support for RAID 0, RAID 1, and RAID 10
USB	Chipset:
	1. 1 x USB 3.2 Gen 2 Type-A port (red) on the back panel
	2. 3 x USB 3.2 Gen 1 ports on the back panel
	Chipset:
	1. 1 x USB Type-C port with USB 3.2 Gen 1 support, available through the internal USB header
	2. 2 x USB 3.2 Gen 1 ports available through the internal USB header
	3. 6 x USB 2.0/1.1 ports (2 ports on the back panel, 4 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. 1 x water cooling CPU fan header
	5. 3 x system fan headers
	6. 2 x addressable LED strip headers
	7. 2 x RGB LED strip headers
	8. 1 x CPU cooler LED strip/RGB LED strip header
	9. 2 x M.2 Socket 3 connectors
	10. 4 x SATA 6Gb/s connectors
	11. 1 x front panel header
	12. 1 x front panel audio header
	13. 1 x USB Type-C port, with USB 3.2 Gen 1 support
	14. 1 x USB 3.2 Gen 1 header
	15. 2 x USB 2.0/1.1 headers
	16. 1 x Trusted Platform Module (TPM) header (2x6 pin, for the GC-TPM2.0_S module only)
	17. 1 x Clear CMOS jumper

Back Panel Connectors	1. 2 x USB 2.0/1.1 ports
	2. 1 x PS/2 keyboard/mouse port
	3. 1 x DVI-D port
	4. 1 x HDMI port
	5. 3 x USB 3.2 Gen 1 ports
	6. 1 x USB 3.2 Gen 2 Type-A port (red)
	7. 1 x Q-Flash Plus button
	8. 1 x RJ-45 port
	9. 3 x audio jacks
I/O Controller	1. iTE I/O Controller Chip
H/W Monitoring	1. Voltage detection
	2. Temperature detection
	3. Fan speed detection
	4. Water cooling flow rate detection
	5. Overheating warning
	6. Fan fail warning
	7. Fan speed control
	* Whether the fan speed control function is supported will depend on the cooler you install.
BIOS	1. 1 x 256 Mbit flash
	2. Use of licensed AMI UEFI BIOS
	3. 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
	EasyTune
	Fast Boot
	Game Boost
	ON/OFF Charge
	RGB Fusion
	Smart Backup
	System Information Viewer
	2. Support for Q-Flash Plus
	3. Support for Q-Flash
	4. Support for Xpress Install
Bundled Software	1. Norton Internet Security (OEM version)
	2. Realtek 8118 Gaming LAN Bandwidth Control Utility

Operating System	1. Support for Windows 10 64-bit
Form Factor	1. ATX Form Factor, 30.5cm x 24.4cm
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-B550-GAMING-X-V2-Gigabyte-AMD-B550-Gaming-X-V2-AMD-AM4-3rd-Gen-Ryzen-ATX-Motherboard-p-252158.php

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