ROG-STRIX-B550-A GAMING

Asus ROG Strix B550-A Gaming AMD B550 Chipset AMD Ryzen AM4 Socket ATX Motherboard

Product Overview

Asus ROG Strix B550-A Gaming AMD B550 Chipset AMD Ryzen AM4 Socket ATX Motherboard, AMD Ryzen 5000 Series/ 3000 Series Desktop Processors - 4 x DIMM, Max. 128GB, DDR4 4600(O.C)/ 4400(O.C)/ 4133(O.C.)/ 4000(O.C.)/ 3866(O.C.)/ 3600(O.C.)/ 3466(O.C.)/ 3200/ 3000/ 2800/ 2666/ 2400/ 2133 MHz Un-buffered Memory, AMD RyzenTM 4000 G-Series Processors - 4 x DIMM, Max. 128GB, DDR4 5100(O.C)/ 4800(O.C.)/ 4600(O.C)/ 4400(O.C)/ 4133(O.C.)/ 4000(O.C.)/ 3866(O.C.)/ 3600(O.C.)/ 3466(O.C.)/ 3200/ 3000/ 2800/ 2666/ 2400/ 2133 MHz Un-buffered Memory, 1 x Intel I225-V 2.5Gb Ethernet, 1 x DisplayPort, 1 x HDMI, 2 x USB 3.2 Gen 2 (1 x Type-A+1 x USB Type-C), 4 x USB 3.2 Gen 1, 2 x USB 2.0, 1 x Optical S/PDIF out, 1 x BIOS FlashBack™ Button(s), 5 x Gold-plated audio jacks, 1 x CPU Fan connector(s), 1 x CPU OPT Fan connector(s), 3 x Chassis Fan connector(s), 1 x AIO_PUMP connector, 1 x AAFP connector, 2 x Aura RGB Strip Header(s), 1 x Addressable Gen 2 header(s), 1 x USB 3.2 Gen 1(up to 5Gbps) connector(s) support(s) additional 2 USB 3.2 Gen 1 port(s), 2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s), 1 x M.2 Socket 1 with M key, type 2242/2260/2280/22110 storage devices support(SATA & PCIe 4.0 x4 mode), 1 x M.2 Socket 2 with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIE 3.0 x 4 mode), 6 x SATA 6Gb/s connector(s), 1 x Thunderbolt header(s), 1 x 24-pin EATX Power connector(s), 1 x 8-pin ATX 12V Power connector(s), 1 x 4-pin ATX 12V Power connector(s), 1 x System panel(s), 1 x Thermal sensor connector(s), 1 x Clear CMOS jumper(s), ATX Form Factor, 30.5 cm x 24.4 cm





Specifications

Overview:

Designed for those seeking to get the most out of their build, ROG Strix B550 Gaming series motherboards offer a feature-set usually found in the higher-end ROG Strix X570 Gaming series, including the latest PCIe® 4.0 connectivity. Offering robust power delivery and effective cooling, ROG Strix B550-A Gaming is well-equipped to handle 3rd Gen AMD Ryzen™ CPUs. As an added bonus, outstanding performance is complemented by a stunning silver-and-white finish and cyberpunk-inspired aesthetics that present a standout look.

Features:

- AMD AM4 socket: Ready for Ryzen™ 5000 Series/ 4000 G-Series/ 3000 Series Desktop Processors
- Best gaming connectivity: PCIe® 4.0-ready, dual M.2, USB 3.2 Gen 2 Type-C® plus HDMI™ 2.1 and DisplayPort 1.2 output support
- Smooth networking: Intel® 2.5Gb Ethernet with ASUS LANGuard
- Robust power solution: Teamed power stages with ProCool power connector, high-quality alloy chokes and durable

capacitors

- Renowned software: Intuitive dashboards for UEFI BIOS and ASUS AI Networking make it easy to configure gaming builds
- DIY-friendly design: Includes pre-mounted I/O shield, BIOS FlashBack™, Q-LEDs and SafeSlot
- Unmatched personalization: ASUS-exclusive Aura Sync RGB lighting, including Aura RGB header and addressable Gen 2 RGB header
- Industry-leading gaming audio: AI Noise-Canceling Microphone, SupremeFX S1220A codec, DTS Sound Unbound and Sonic Studio III for immersive audio

Advance Your Gaming Immersion
ROG Strix B550-A Gaming is PCIe® 4.0-ready and provides the latest connectivity options for supersmooth networking and blisteringly fast file transfers. Audio enhancements give you a massive advantage, allowing you to pick up on the subtlest of cues for a completely immersive gaming experience.

PCIe 4.0-Ready
ROG Strix B550-A Gaming features two M.2 slots, one of which supports the latest PCIe 4.0 standard to provide maximum storage flexibility and the fastest data speeds available via the 3rd Gen AMD Ryzen platform. Both M.2 slots support up to the type 22110 socket and NVM Express® RAID for a performance boost.

Intel 2.5 Gb Ethernet
Onboard 2.5 Gb Ethernet gives your wired connection a boost, with speeds that are 2.5 times faster than standard Ethernet connections for speedy file transfers, lag-free gaming, and high-res video streaming.

SupremeFX
Built-in ROG SupremeFX audio technology ensures pristine audio for ROG Strix B550-A Gaming. Along with ensuring a flat frequency response for a neutral, detailed sound signature, it offers two front-panel outputs driven by op amps that deliver high-quality audio to gaming headsets.

Audio cover
Effective shielding against electromagnetic interference preserves the integrity of audio signals for the best sound quality.

Audio-line shielding
Blocks electromagnetic interference from the motherboard or add-ons to provide cleaner audio.

Dual OP amplifiers
With two op-amps onboard you're able to pump exceptional audio to your favorite cans, with 32-600ohm-headphone impedance for great flexibility.

Premium Nichicon™ audio capacitors
Fine-quality Japanese-made components that produce a warmer, natural sound with exceptional clarity and fidelity.

AI Noise-Canceling Microphone
AI noise-canceling microphone software is exclusively featured on ROG Strix motherboards and supports 3.5 mm, USB, or Bluetooth headsets. The utility leverages a massive deep-learning database to preserve the sound of your voice while eliminating distracting keyboard clatter, mouse clicks, and other forms of environmental noise. And it only places a slight load on the CPU, ensuring minimal impact on gaming performance.

Sonic Studio III
Sonic Studio supports HRTF-based (head-related transfer function*) virtual surround for VR headsets, casting an immersive aural landscape that draws you deeper into the action. The intuitive Sonic Studio interface also offers a range of EQ options and one-click presets, allowing you to tailor acoustics to suit personal preferences or the characteristics of your headset.

SONIC STUDIO LINK

The new Sonic Studio Link allows you to apply Sonic Studio effects on all playback devices. Simply press the Sonic Studio Link button to enjoy the effect on any connected device.

SONIC STUDIO VIRTUAL MIXER
Mix your voice and video game audio together using this software specifically designed for streaming applications. A variety of settings and monitoring.

APP-SPECIFIC PROFILES
Apply customized audio settings to various applications, so that each is perfectly tuned to the way you want to listen.

DTS: Sound Unbound
ROG Strix B550 series motherboards are pre-loaded with the DTS® Sound Unbound™ app that envelops you in audio as never before, conjuring whole new levels of immersion for extraordinary gaming and entertainment experiences. By leveraging Windows Sonic spatial technology, DTS Sound Unbound delivers audio in a virtual 3D space - putting you right in the middle of the soundscape, where you can sense the location and direction of every gunshot, footstep or other sound in your virtual environment.

STEREO SOUND
Discrete left and right audio channels enable headphone or two-speaker setup.

SURROUND SOUND
Audio is split and served over multiple speaker channels - e.g., 5.1 or 7.1 - to create an enveloping experience on a single, logical plane.

SPATIAL SOUND
A virtual audio 'sphere' effect creates astonishing 360 degrees immersion - with you at the center, where sounds seem to travel in all directions.

All-round Performance
ROG Strix B550-A Gaming provides robust power delivery to fuel Ryzen's cores, comprehensive cooling, and support for faster memory - so it has everything you need to load up your build with high-performance components for playing in the big leagues.

POWER DESIGN
Digital power control and an array of power stages ensure ROG Strix B550-A Gaming has the muscle to control the latest AMD CPUs.

PROCOOL POWER CONNECTOR
The ProCool socket is built to exacting specifications to ensure flush contact with the PSU power lines, enabling lower impedance and better heat dissipation.

DIGI+ POWER CONTROL
ASUS DIGI+ Power Control is an innovative set of controllers for digital VRM and DRAM Voltage. These controllers offer ultra precise memory and voltage tuning for optimal system efficiency, stability and performance.

TEAMED POWER STAGES
12+2 power stages combine high-side and low-side MOSFETs and drivers into a single package, delivering the power and efficiency that the AMD CPUs demand.

ALLOY CHOKE & CAPACITOR
Superior chokes and durable capacitors are engineered to resist extreme temperatures and provide up to 110% better performance than the industry standard.

6-LAYER PCB
The 6-layer PCB quickly dissipates heat around the VRM to improve overall system stability and give the CPU more overclocking headroom.

Cooler by Design
ROG Strix B550 series features the most comprehensive cooling options ever, configurable via Fan Xpert 4 or the UEFI BIOS.

CPU Fan Header
A dedicated pair of PWM/DC fan headers for CPU coolers

AIO Pump Fan Header
A dedicated PWM/DC header for self-contained water-cooling setups

M.2 Heatsink
Keeps the M.2 SSD at the optimum operating temperature for consistent performance and reliability

4-pin PWM/DC Fan Header
All onboard headers support auto-detection of PWM or DC fans

VRM Heatsink
MOS heatsink provides large contact area for MOSFETs and chokes

Thermal Pad
High-quality thermal pad helps transfer heat from inductor and phase array to heatsink

ASUS OptiMem II
To provide AMD's latest CPUs unfettered access to memory bandwidth, motherboard trace routing has been reimagined with the ROG Strix B550-A Gaming. Integrated OptiMem II technology carefully maps memory signal pathways across PCB layers to reduce vias, and it also adds shielding zones that significantly reduce crosstalk. To further enhance overclocking headroom for fully stacked memory configurations, a highly customized Daisy Chain layout delivers time-aligned signaling.

Play Your Own Style
The cyberpunk-inspired aesthetics of ROG Strix B550-A Gaming are accentuated by the bold slashes and cybertext. By pairing your rig with other products from the diverse ROG ecosystem, you can create a fully customized gaming setup that reflects your personal style.

UNDENIABLY ROG STRIX
Finished in stunning white and silver, and featuring the redesigned ROG logo and recessed cybertext markings on its I/O shroud, ROG Strix B550-A Gaming is an eye-catcher. These new design touches move ROG Strix boldly towards the future, while clearly reflecting its gaming roots.

Pre-mounted I/O shield
Patented I/O shield is finished in sleek matte black and comes pre-mounted to make it easy to install on the motherboard.

Q-LEDs
Four onboard LEDs indicate power status, and any problem with the CPU, memory, graphics card or boot device for quick diagnosis.

SafeSlot
The reinforced ASUS SafeSlot provides stronger PCIe device retention and greater shearing resistance.

BIOS FlashBack™

Users can place a BIOS file onto a FAT32-formatted USB drive and simply plug it into the USB BIOS FlashBack™ port and press a button to update the (UEFI) BIOS. Updates can be made even if memory or CPU aren't present.

CERTIFIED COMPATIBILITY
ROG Strix motherboards undergo an extensive certification program to ensure the very best compatibility with the widest range of components and devices. For a smooth build process, refer to our list of guaranteed-compatible components. To help with memory upgrades, the list also includes a dedicated Qualified Vendor list (QVL).

The ROG Strix Ecosystem Awaits
Up your game with ROG Strix. Enjoy complementary aesthetics, control and compatibility across AIO coolers, cases, peripherals, and much more! ROG offers more choices than any other brand.

ROG Gives You More
ROG-exclusive software utilities deliver intuitive audio tuning and gaming enhancements that allow you to configure your gaming build the way you want.

UEFI BIOS
The renowned ROG UEFI (BIOS) provides everything you need to configure, tweak, and tune your rig. It offers intelligently simplified options for newcomers to PC DIY, as well as comprehensive features for seasoned veterans.

Advanced Mode
When you're ready for a deeper dive into the configuration of your system, delve into the UEFI's Advanced mode and take complete control. Each section is intuitively organized, and a built-in search feature makes it easy to find the options you need. Advanced functions are coded with the intelligence to adapt to your settings, and when you're ready to take charge, parameters have the granularity to dial in performance just the way you want.

EZ Mode
Designed to simplify setup, EZ mode presents all the vital settings and stats on a single page. With guided wizards, drag-and-drop functionality, and one-click application of important settings, your rig will be up and running in no time.

AI Networking
The proprietary ROG GameFirst VI utility is designed to help all users - beginners, experts, and everyone in between - optimize network settings to ensure smooth online gameplay. New to this generation, GameFirst VI features AI-enhanced identification and boost technology to ensure faster and smarter network optimization.

Identification
GameFirst VI analyzes your usage patterns and the digital signatures of your applications and compares them to a database of over 200,000 apps. The database is regularly updated to ensure that apps are recognized.

Boost
GameFirst VI intelligently switches application priority and adjusts bandwidth accordingly, depending on the situation. When gaming, it accelerates and prioritizes game packets to give you supersmooth online gameplay - even when you're streaming high-quality video to your audience or transferring large files.

Visualization
An intuitive graph gives you an overview of the network in real time. Simply click on the tab to view current bandwidth usage of each application, geolocation status of each network connection, and an analysis of each WiFi channel.

NETWORK INSIGHT
WiFi Quick Assist analyzes network information - including real-time bandwidth use - to generate a graph that provides a clear overview of current network status. When paired with a ROG router, WiFi Quick Assist lets you quickly scan your WiFi network to find the best channel; then you can use Game Boost to prioritize gaming devices and packets.

ADAPTIVE INTELLIGENCE
GameFirst VI analyzes current app usage and adjusts bandwidth accordingly to ensure smoother online experiences, even when multitasking.

GAMING FIRST MODE
Gaming First mode leverages a massive application database and an analysis of your frequently used apps to prioritize gaming network traffic. This reduces jitter and decreases ping to give you lag-free online gaming.

Armoury Crate
Armoury Crate is a new software utility designed to give you centralized control of supported gaming products, making it easy to tune the look and feel of your system. From a single intuitive interface, Armoury Crate lets you easily customize RGB lighting and effects for compatible devices and synchronize them with Aura Sync to create a unified lighting scheme across your system. You can also use Armoury Crate to download the user manual, drivers and software. In addition, Armoury Crate features a dedicated product registration page as well as a news feed to help you stay in touch with the gaming community.

RAMCache III
RAMCache lll software turns milliseconds into microseconds to boost game-load times. Fully compatible with the latest NVM Express® storage options, its uniquely intelligent technology effectively caches an entire storage device so that favorite games and apps launch at breakneck speeds.

Specifications:

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Specifications	
Product Code	ROG-STRIX-B550-A GAMING
CPU	AMD AM4 Socket for AMD Ryzen 5000 Series/ 4000 G-Series/ 3000 Series Desktop Processors
Chipset	AMD B550
Memory	AMD Ryzen 5000 Series/ 3000 Series Desktop Processors
	4 x DIMM, Max. 128GB, DDR4 4600(O.C) / 4400(O.C) / 4133(O.C.) / 4000(O.C.) / 3866(O.C.) / 3600(O.C.) / 3466(O.C.) / 3200 / 3000 / 2800 / 2666 / 2400 / 2133 MHz Un-buffered Memory
	AMD RyzenTM 4000 G-Series Processors
	4 x DIMM, Max. 128GB, DDR4 5100(O.C) / 4800(O.C.) / 4600(O.C) / 4400(O.C) / 4133(O.C.) / 4000(O.C.) / 3866(O.C.) / 3600(O.C.) / 3466(O.C.) / 3200 / 3000 / 2800 / 2666 / 2400 / 2133 MHz Un-buffered Memory
	Dual Channel Memory Architecture
	OptiMem II
	ECC Memory (ECC mode) support varies by CPU.
Graphics	Integrated Graphics Processor
	1 x DisplayPort 1.2
	1 x HDMI 2.1(4K@60HZ)
	*Graphics specifications may vary between CPU types.

Expansion Slots	AMD Ryzen 5000 Series/ 3000 Series Desktop Processors
	1 x PCIe 4.0 x16 (x16 mode)
	AMD RyzenTM 4000 G-Series Processor
	1 x PCIe 3.0 x16 (x16 mode)
	AMD B550 Chipset
	1 x PCIe 3.0 x16 (x4 mode)
	3 x PCIe 3.0 x1
Multi-GPU Support	Supports AMD 2-Way CrossFireX Technology
Storage	Total supports 2 x M.2 slot(s) and 6 x SATA 6Gb/s ports
	AMD Ryzen 5000 Series/ 3000 Series Desktop Processors :
	1 x M.2_1 socket 3, with M key, type 2242/2260/2280/22110 storage devices support(SATA & PCIe 4.0 x4 mode)
	AMD RyzenTM 4000 G-Series Processor :
	1 x M.2_1 socket 3, with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIE 3.0 x 4 mode)
	AMD B550 Chipset :
	1 x M.2_2 socket 3, with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIE 3.0 x 4 mode)
	6 x SATA 6Gb/s port(s)
	Support Raid 0, 1, 10
Ethernet	Intel I225-V 2.5Gb Ethernet
	ASUS LANGuard
USB	Rear USB Port (Total 8)
	2 x USB 3.2 Gen 2 port(s)(1 x Type-A +1 x USB Type-C)
	4 x USB 3.2 Gen 1 port(s)(4 x Type-A)
	2 x USB 2.0 port(s)
	Front USB Port (Total 6)
	2 x USB 3.2 Gen 1 port(s)
	4 x USB 2.0 port(s)

Audio	ROG SupremeFX 8-Channel High Definition Audio CODEC S1220A
	- Dual OP Amplifiers
	- Impedance sense for front and rear headphone outputs
	- Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking
	- High quality 120 dB SNR stereo playback output and 113 dB SNR recording input
	- Supports up to 32-Bit/192kHz playback
	Audio Feature :
	- SupremeFX Shielding Technology
	- Gold-plated jacks
	- Optical S/PDIF in port(s) at back panel
	- Audio Shielding
	- Premium Japanese audio capacitors
	- Audio Cover
	* Due to limitations in HDA bandwidth, 32-Bit/192kHz is not supported for 8-Channel audio.
Back Panel I/O Ports	1 x Intel I225-V 2.5Gb Ethernet
	1 x DisplayPort
	1 x HDMI
	2 x USB 3.2 Gen 2 (1 x Type-A+1 x USB Type-C)
	4 x USB 3.2 Gen 1
	2 x USB 2.0
	1 x Optical S/PDIF out
	1 x BIOS FlashBack Button(s)
	5 x Gold-plated audio jacks

Internal I/O Connectors	1 x CPU Fan connector(s)
	1 x CPU OPT Fan connector(s)
	3 x Chassis Fan connector(s)
	1 x AIO_PUMP connector
	1 x AAFP connector
	2 x Aura RGB Strip Header(s)
	1 x Addressable Gen 2 header(s)
	1 x USB 3.2 Gen 1(up to 5Gbps) connector(s) support(s) additional 2 USB 3.2 Gen 1 port(s)
	2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)
	1 x M.2 Socket 1 with M key, type 2242/2260/2280/22110 storage devices support(SATA & PCIe 4.0 x4 mode)
	1 x M.2 Socket 2 with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIE 3.0 x 4 mode)
	6 x SATA 6Gb/s connector(s)
	1 x Thunderbolt header(s)
	1 x 24-pin EATX Power connector(s)
	1 x 8-pin ATX 12V Power connector(s)
	1 x 4-pin ATX 12V Power connector(s)
	1 x System panel(s)
	1 x Thermal sensor connector(s)
	1 x Clear CMOS jumper(s)
Special Features	Aura Sync - Standard RGB header(s) - Addressable Gen 2 RGB header(s) ASUS Q-Design - ASUS Q-DIMM - ASUS Q-LED (DRAM [yellow], CPU [red], VGA [white], Boot Device [yellow green) - ASUS Q-Slot ASUS Thermal Solution - Aluminum M.2 heatsink ASUS EZ DIY -BIOS FlashBack button -BIOS FlashBack LED -Clear CMOS header -ProCool -Pre-mounted I/O shield - SafeSlot
Software Features	OG Exclusive Software - RAMCache III - ROG CPU-Z - GameFirst VI - Sonic Studio III + Sonic Studio Virtual Mixer - Sonic Radar III - DTS Sound Unbound - Overwolf - Anti-virus software ASUS Exclusive Software Features Armoury Crate - Aura Creator - Aura Sync - AI Noise Cancelling Microphone AI Suite 3: - PPSU EPU DIGI+ VRM Fan Xpert 4 TurboV EVO - EZ update WinRAR UEFI BIOS ASUS EZ DIY - ASUS CrashFree BIOS 3 - ASUS EZ Flash 3 - ASUS UEFI BIOS EZ Mode
BIOS	256 Mb Flash ROM, UEFI AMI BIOS
Manageability	WOL by PME, PXE

Accessories	User's manual
	4 x SATA 6Gb/s cable(s)
	1 x Supporting DVD
	1 x ROG Strix stickers
	1 x Cable ties pack(s)
	1 x Extension cable for Addressable LED
	1 x ROG Thank you card
	1 x M.2 SSD screw package(s)
	1 x M.2 Rubber Package(s)
Operating System	Windows 10 64-bit
Form Factor	ATX Form Factor
	12 inch x 9.6 inch (30.5 cm x 24.4 cm)

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/ROG-STRIX-B550-A-GAMING-Asus-ROG-Strix-B550-A-Gaming-AMD-B550-Chipset-AMD-Ryzen-AM4-p-300444.php

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