ComX Computers
Product Specification Sheet

90MB1470-M0EAY0

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

Product Overview

Asus ROG Strix B550-E Gaming, AMD AM4 Socket 3rd Gen AMD Ryzen Processors, Memory: 4 x DIMM, Max. 128GB, DDR4, Expansion Slots: 2 x PCIe 4.0x16, 1xPCIe 3.0 x16, 2 x PCIe 3.0x1. Storage and USB: 1xM.2_1 socket 3(PCIE 4.0x4 and SATA modes), 1x M.2_1 socket 3(PCIE 3.0 x4 and SATA modes), 6x SATA 6Gb/s. USB bkx8, fntx7, Multi VGA: Supports AMD 3-Way CrossFireX Technology + NVIDIA 2-Way SLI Technology, Onboard VGA Output Available: HDMI/DisplayPort ports



Specifications

Overview:

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. With robust power delivery and effective cooling, ROG Strix B550 Gaming is well-equipped to handle 3rd Gen AMD Ryzen™ CPUs. Boasting futuristic aesthetics and intuitive ROG software, ROG Strix B550-E Gaming gives you a head start on your dream build.

Features:

Advance Your Gaming Immersion
ROG Strix B550-E 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-E 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.

WiFi 6 (802.11 ax)
Onboard WiFi 6 (802.11ax) supports ultrafast wireless-networking speeds, improved capacity and better performance in dense wireless environments, providing exceptional online gaming experiences. Pair your motherboard with ASUS WiFi 6 routers to fully experience the networking potential of WiFi 6.

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-E 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.

All-round Performance
ROG Strix B550-E 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.

DIGI+ POWER DESIGN
Digital power control and an array of power stages ensure ROG Strix B550-E 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
14+2 power stages combine high-side and low-side MOSFETs and drivers into a single package, delivering the power and efficiency that the latest 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-E 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-E 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
ROG Strix B550-E Gaming embodies the ROG spirit with eye-catching aesthetics, including the next-generation distorted ROG eye logo and recessed cybertext patterning etched on the I/O shroud. These new designs move ROG Strix boldly into the future, while clearly reflecting the series' gaming roots.

OUTSHINE THE COMPETITION
ROG Strix motherboards deliver sterling performance and superior aesthetics to outshine the competition. They also feature built-in ASUS Aura technology that enables full RGB lighting control and a variety of presets for embedded RGB LEDs as well as lighting strips connected to onboard RGB headers. In addition, all lighting can be easily synced with an ever-growing portfolio of Aura-capable ASUS hardware.

ADDRESSABLE GEN 2 RGB HEADER
ROG Strix B550-E Gaming's Addressable Gen 2 RGB headers are now capable of detecting the number of LEDs on second-gen addressable RGB devices, allowing the software to automatically tailor lighting effects to specific devices. The new headers also offer backward-compatibility with existing Aura RGB gear.

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-Code
Diagnostic codes provide a quick reference to help resolve common installation or component issues

FlexKey

Front-panel header allows customization of the front-panel chassis reset button, providing options for quick access to Aura lighting controls, DirectKey, or system reset

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.

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.

5-Way Optimization
Take care of complex tuning with just one click. ASUS 5-Way Optimization is a system-wide tuning utility that overclocks the processor and tunes fan speeds to ensure the best balance between cooling and acoustics. The automated CPU tuning feature of 5-Way Optimization leverages the same onboard intelligence as AI Overclocking, but goes further by running a Prime95-based stress test that continually monitors the system.

TPU insight
The TurboV Processing Unit (TPU) provides AI Suite 3 with the intelligence needed to automatically fine-tune voltages, monitor system stats, and adjust overclocking settings. AI Suite 3 also provides AI Overclocking prediction values for users who want more insight when experimenting with different settings.

EPU guidance
The Energy Processing Unit (EPU) automatically optimizes power consumption and maximizes savings with Away mode - a smart setting that creates an extreme energy-saving scenario by shutting down unused I/O controllers.

Fan Xpert 4
Fan Expert 4 provides comprehensive control over fans, water pumps and all-in-one (AIO) coolers. Control is also possible via the award-winning ROG UEFI. Whether you're cooling with air or water, Auto-Tuning mode intelligently configures all parameters with a single click. There's also an Extreme Quiet mode, which reduces all fan speeds to below the default minimum - keeping your system whisper-quiet when performing light tasks.

DIGI+ power controls
The Digi+ voltage-regulator module (VRM) delivers real-time control over voltage droop, allowing you to switch frequency and power-efficiency settings so you can fine-tune CPU voltage regulation for ultimate stability and performance.

Turbo App
This intuitive tool allows you to define CPU overclocking, apply fan profiles, prioritize network data and optimize audio settings at app level - so your system is perfectly optimized for whatever you're doing.

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	90MB1470-M0EAY0
CPU	AMD AM4 Socket 3rd Gen AMD Ryzen Processors
Chipset	AMD B550
Memory	3rd Gen AMD Ryzen Processors
	4 x DIMM, Max. 128GB, DDR4 4600(O.C) / 4400(O.C) / 4266(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
	Next Generation AMD Ryzen PRO Processors
	4 x DIMM, Max. 128GB, DDR4 5100(O.C) / 4800(O.C.) / 4600(O.C) / 4400(O.C) / 4266(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.
Graphic	Integrated Graphics Processor
	1 x DisplayPort 1.2
	1 x HDMI 2.1(4K@60HZ)
	*Graphics specifications may vary between CPU types.
Multi-GPU Support	Supports NVIDIA 2-Way SLI Technology
	Supports AMD 3-Way CrossFireX Technology
Expansion Slots	3rd Gen AMD Ryzen Processors
	2 x PCIe 4.0 x16 (x16 or dual x8)
	AMD B550 Chipset
	1 x PCIe 3.0 x16 (x4 mode)
	2 x PCIe 3.0 x1
Storage	Total supports 2 x M.2 slots and 6 x SATA 6Gb/s ports
	3rd Gen AMD Ryzen 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 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

LAN	Intel I225-V 2.5Gb Ethernet
	ASUS LANGuard
Wireless Data Network	Intel Wi-Fi 6 AX200
	2x2 Wi-Fi 6 (802.11 a/b/g/n/ac/ax) support 1024QAM/OFDMA/MU-MIMO
	Supports dual band frequency 2.4/5 GHz
	Supports channel bandwidth: HT20/HT40/HT80/HT160
Bluetooth	Bluetooth v5.1
	*BT 5.1 function will be ready in Windows 10 build 19041 or later.
Audio	ROG SupremeFX 7.1-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
	- Rear audio USB Type-C port
	- Audio Shielding
	- Premium Japanese audio capacitors
	- Audio Cover
USB Ports	Rear USB Port (Total 8)
	3 x USB 3.2 Gen 2 port(s)(2 x Type-A +1 x USB Type-C)
	4 x USB 2.0 port(s)(4 x Type-A)
	1 x USB 2.0 port(s)(1 x audio USB Type-C)
	Front USB Port (Total 7)
	2 x USB 3.2 Gen 1 port(s)
	4 x USB 2.0 port(s)
	1 x USB 3.2 Gen 2 front panel connector port(s)

Software Features	ROG 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:
	- 5-way Optimization
	TPU
	EPU
	DIGI+ VRM
	Fan Xpert 4
	Turbo APP
	- EZ update
	WinRAR
	UEFI BIOS
	ASUS EZ DIY
	- ASUS CrashFree BIOS 3
	- ASUS EZ Flash 3
	- ASUS UEFI BIOS EZ Mode
	FlexKey

ASUS Special Features	Aura Sync
	- Standard RGB header(s)
	- Addressable Gen 2 RGB header(s)
	ASUS Q-Design
	- ASUS Q-CODE
	- 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
	Rear audio USB Type-C connector
Back I/O Ports	1 x Intel I225-V 2.5Gb Ethernet
	1 x DisplayPort
	1 x HDMI
	3 x USB 3.2 Gen 2 (2 x Type-A+1 x USB Type-C)
	5 x USB 2.0 (1 for audio USB Type-C)
	5 x Audio jack(s)
	1 x BIOS FlashBack Button(s)
	ASUS Wi-Fi module (Wi-Fi 802.11 a/b/g/n/ac and Bluetooth v5.0)

Internal I/O Ports	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)
	2 x Addressable Gen 2 header(s)
	1 x USB 3.2 Gen2 connector support additional 1 USB ports(20-pin, Type-C)
	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)
	1 x Q-Code
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 RGB strips (80 cm)
	1 x Extension cable for Addressable LED
	1 x ROG Thank you card
	1 x Wi-Fi moving antenna
	1 x M.2 SSD screw package(s)
	1 x M.2 Rubber Package(s)
	1 x ROG audio USB Type-C cable
	1 ROG key chain
BIOS	256 Mb Flash ROM, UEFI AMI BIOS

Manageability	WOL by PME, PXE
Operating System	Windows 10 64-bit
Form Factor	ATX Form Factor
	12 inch x 9.6 inch (30.5 cm x 24.4 cm)
Note	*Share bandwidth with PCIe3.0 x1_1, PCIe3.0 x1_2
	** When the M.2_2 Socket 3 is populated, SATA6G_5/6 ports will be disabled.
	* Due to limitations in HDA bandwidth, 32-Bit/192 kHz is not supported for 7.1-Channel audio.

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/90MB1470-M0EAY0-Asus-ROG-Strix-B550-E-Gaming-B550-Chipset-AMD-Ryzen-AM4-Socket-Motherboard-p-244765.php

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