ROG-STRIX-B850-I-GAMING

Asus ROG Strix B850-I Gaming WiFi AM5 Mini-ITX Gaming Motherboard

Product Overview

Asus ROG Strix B850-I Gaming WiFi AM5 Mini-ITX Gaming Motherboard, AMD B850 Chipset, 2x DDR5 DIMM Memory slots, 1x HDMI Port, 1x USB 10Gbps Ports support USB Type-C Display Outputs, 1x PCI-e 5.0 x16 slot with Q-Release Slim, 1x PCI-e 4.0 x16 slot with q-rlease Slim, 2x M.2 slots supports up to PCI-e 5.0 x 4 mode, 2x SATA 6Gb/s Ports, 1x Intel 2.5Gb Ethernet, Wi-Fi 7, Bluetooth, USB 20Gbps Port (USB Type-C), USB 10Gbps Ports (Type-A & Type-C), USB 2.0 Ports (Type-A), ROG SupremeFX 7.1 Surround Sound High Definition Audio, Rear Optical S/PDIF out Port, 3x audio jacks, 1x BIOS FlashBack Button, 1x Clear CMOS Button, 1x FlexKey Button











Specifications

Overview Summary:

The Asus ROG Strix B850-I Mini-ITX Gaming Motherboard is perfect for South African gamers seeking compact yet high-performance systems. Supporting AMD Ryzen 7000, 8000, and 9000 series processors, it offers dual DDR5 slots, PCIe 5.0 graphics, and dual M.2 NVMe storage. Its ultra-fast connectivity includes Wi-Fi 7, Intel 2.5Gb Ethernet, and multiple USB ports for seamless gaming and content creation. Designed for easy installation with Q-Release and M.2 Q-Latch features, this motherboard combines power and convenience in a small form factor. Buy now to upgrade your gaming rig with cutting-edge technology.

Experience crystal-clear audio with ROG SupremeFX 7.1 surround sound, and take advantage of robust cooling support and versatile storage options. Shop now to build a compact, high-end gaming system that delivers next-level performance.

Performance tier: High-End Gaming

Uses: Gaming, Content Creation, PC Building, Overclocking, High-Speed Storage

Overview:

Asus ROG Strix B850-I Gaming WiFi AM5 Mini-ITX Motherboard
The Asus ROG Strix B850-I Gaming WiFi AM5 Mini-ITX motherboard brings high-performance computing to compact builds. Designed for gamers and PC enthusiasts, this motherboard offers powerful processing support, ultra-fast connectivity, and immersive audio-all in a space-saving Mini-ITX form factor. Ideal for those who want top-tier gaming performance without a bulky system, it combines innovative design with future-ready technology.

Description:

This Asus Mini-ITX motherboard supports AMD Ryzen 9000, 8000, and 7000 series desktop processors, paired with dual-channel DDR5 memory for maximum performance. With PCIe 5.0 slots and Lightning Gen 5 x2 M.2 storage, it delivers lightning-fast data transfer for graphics cards and NVMe SSDs. Gamers and builders benefit from EZ PC DIY installation features, Wi-Fi 7 connectivity, Intel 2.5Gb Ethernet, and ROG SupremeFX 7.1 audio for an immersive experience. Its compact design does not compromise on performance, making it perfect for high-end gaming rigs and custom builds.

Features:

High-Speed Performance for Gaming
Equipped with PCIe 5.0 x16 and PCIe 4.0 x16 slots, this motherboard ensures compatibility with the latest graphics cards.

Dual Lightning Gen 5 M.2 slots offer rapid NVMe SSD speeds, reducing game load times and enhancing overall system responsiveness. Combined with DDR5 memory support, your gaming experience is smooth, responsive, and ready for next-generation applications.

Easy Installation and Upgrade
The Asus ROG Strix B850-I is built with user-friendly design elements that simplify PC assembly. Features such as PCIe Slot Q-Release Slim, M.2 Q-Slide, and M.2 Q-Latch connectors allow for quick installation and upgrades. Even novice builders can assemble a high-performance system effortlessly.

Immersive Audio Experience
ROG SupremeFX 7.1 Surround Sound audio delivers high-fidelity sound with crystal-clear clarity and powerful bass. The integrated ALC4080 audio codec, combined with SupremeFX shielding technology and premium components, ensures an immersive gaming and entertainment experience.

Advanced Connectivity Options
Stay connected with ultra-fast Wi-Fi 7 and Intel 2.5Gb Ethernet. Multiple USB ports, including USB 20Gbps Type-C and USB 10Gbps Type-A/C, support modern peripherals and high-speed data transfers. HDMI and Type-C display outputs allow flexible monitor setups for gaming or productivity.

Powerful Processor and Memory Support
This Mini-ITX motherboard supports AMD Ryzen 9000, 8000, and 7000 series desktop processors, paired with DDR5 memory up to 128GB at 8400+ MT/s (OC). It also supports AMD Extended Profiles for Overclocking (EXPO) and ASUS Enhanced Memory Profile (AEMP), ensuring you get maximum performance from your system.

Comprehensive Storage Options
Two M.2 slots accommodate PCIe 5.0 or 4.0 NVMe SSDs depending on the processor series. Two SATA 6Gb/s ports provide additional storage options, making this motherboard versatile for gaming, content creation, and high-speed data tasks.

Reliable and Durable Design
ROG Strix motherboards are engineered with robust power solutions and high-quality components to ensure stability and longevity. EZ PC DIY features make upgrades and maintenance easier, while the compact Mini-ITX form factor allows for stylish, space-efficient builds.

- CPU: AMD Socket AM5, compatible with Ryzen 9000, 8000, 7000 Series
- Chipset: AMD B850
- Memory: 2x DDR5 DIMM slots, max 128GB, 8400+ MT/s (OC), dual-channel
- Graphics: 1x HDMI, 1x USB 10Gbps Type-C display output
- Expansion: PCIe 5.0 x16 (Q-Release Slim), PCIe 4.0 x16 (Q-Release Slim)
- Storage: 2x M.2 slots (PCIe 5.0/4.0 x4), 2x SATA 6Gb/s
- Ethernet & Wireless: Intel 2.5Gb Ethernet, Wi-Fi 7, Bluetooth 5.4
- Audio: ROG SupremeFX 7.1 Surround Sound, ALC4080 codec, optical S/PDIF
- USB Ports: Rear - 1x USB 20Gbps (Type-C), 5x USB 10Gbps, 2x USB 2.0; Front - 1x USB 10Gbps, 1x USB 5Gbps header, 1x USB 2.0 header
- Form Factor: Mini-ITX
- Operating System: Windows 11

Included in the Box

- Asus ROG Strix B850-I Gaming WiFi AM5 Mini-ITX Motherboard
- SATA 6Gb/s cables x2
- Wi-Fi antenna x1
- Cable ties x1

- M.2 backplate Q-Latch and Q-Slide packages
- ROG Key Chain and Stickers
- Quick Start Guide

Why Choose Asus ROG Strix

Asus ROG Strix motherboards are trusted for reliability, innovative design, and high-end performance. They are engineered for gamers and PC enthusiasts who demand top-tier performance and aesthetics. With a strong focus on quality and cutting-edge technology, Asus ROG Strix is the premier choice for building a powerful and durable gaming system.

Specifications:

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Specifications	
Product Code	ROG-STRIX-B850-I-GAMING
CPU	AMD Socket AM5 for AMD Ryzen 9000 & 8000 & 7000 Series Desktop Processors
Chipset	AMD B850 Chipset
Memory	2 x DIMM slots, max. 128GB, DDR5
	Supports up to 8400+MT/s (OC) with Ryzen 9000 & 8000 & 7000 Series Processors
	ECC and Non-ECC, Un-buffered DIMM
	Dual channel memory architecture
	Supports AMD Extended Profiles for Overclocking (EXPO)
	ASUS Enhanced Memory Profile (AEMP)
	** Non-ECC, un-buffered DDR5 memory supports On-Die ECC function.
Graphics	1 x HDMI port
	1 x USB 10Gbps ports support USB Type-C display outputs
	* Graphics specifications may vary between CPU types. Please refer to AMD CPU specifications.
	*** Supports 4K@60Hz as specified in HDMI 2.1.
	****Supports max. 4K@60Hz as specified in DisplayPort 1.4a
	***** VGA resolution support depends on processors' or graphic cards' resolution.
Expansion Slots	AMD Ryzen 9000 & 7000 Series Desktop Processors
	1 x PCIe 5.0 x16 slot with Q-Release Slim
	AMD Ryzen 8000 Series Desktop Processors
	1 x PCIe 4.0 x16 slot with Q-Rlease Slim

Storage	Total supports 2 x M.2 slots and 2 x SATA 6Gb/s ports
	AMD Ryzen 7000 & 9000 Series Desktop Processors
	M.2_1 (Key M), type 2242/2260/2280 (supports PCIe 5.0x4 mode)
	M.2_2 (Key M), type 2242/2260/2280 (supports PCIe 5.0 x4 mode)
	AMD Ryzen 8000 Series Desktop Processors
	M.2_1 (Key M), type 2242/2260/2280 (supports PCIe 4.0x4 mode)
	M.2_2 (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)
	* Specifications vary by CPU types.
Ethernet	1 x Intel 2.5Gb Ethernet
	ASUS LANGuard
Wireless & Bluetooth	Wi-Fi 7
	2x2 Wi-Fi 7 (802.11be)
	Supports 2.4/5/6GHz frequency band
	Supports Wi-Fi 7 160MHz bandwidth, up to 2.9Gbps transfer rate.
	Bluetooth v5.4
	*Wi-Fi features may vary depending on the operating system
	For Windows 11, Wi-Fi 7 will require 24H2 or later version for full functions, Windows 11 21H2/22H2/23H2 only supports Wi-Fi 6E.
	For Windows 10, please note that no driver is available, refer to the Wi-Fi chipset vendor's website for details.
	** Wi-Fi 6GHz frequency band and bandwidth regulatory may vary between countries.
	*** The Bluetooth version may vary, please refer to the Wi-Fi module manufacturer's website for the latest specifications.
USB	Rear USB (Total 8 ports)
	1 x USB 20Gbps port(s) (1 x USB Type-C)
	5 x USB 10Gbps port(s) (4 x Type-A + 1 x USB Type-C)
	2 x USB 2.0 port(s) (2 x Type-A)
	Front USB (Total 5 ports)
	1 x USB 10Gbps
	1 x USB 5Gbps header(s) support(s) 2 additional USB 5Gbps ports
	1 x USB 2.0 header(s) support(s) 2 additional USB 2.0 ports
	USB Type-C power delivery output: max. 5V/3A

Audio	ROG SupremeFX 7.1 Surround Sound High Definition Audio CODEC ALC4080
	- Impedance sense for front and rear headphone outputs
	- Supports: Jack-detection, Multi-streaming, Front Panel MIC Jack-retasking
	- High quality 120 dB SNR stereo playback output and 110 dB SNR recording input
	- Supports up to 32-Bit/384 kHz playback on front panel
	Audio Features
	- SupremeFX Shielding Technology
	- Savitech SV3H712 AMP
	- Rear optical S/PDIF out port
	- Premium audio capacitors
	- Audio cover
	* A chassis with an HD audio module in the front panel is required to support 7.1 Surround Sound audio output.
	** The LINE OUT port on the rear panel does not support spatial audio. If you wish to use spatial audio, make sure to connect your audio output device to the audio jack on the front panel of your chassis or use a USB interface audio device.
Back Panel I/O Ports	1 x USB 20Gbps port(s)
	5 x USB 10Gbps port(s) (4 x Type-A + 1 x USB Type-C with DP Alt mode)
	2 x USB 2.0 port(s) (2 x Type-A)
	1 x HDMI port
	1 x Wi-Fi module
	1 x Intel 2.5Gb Ethernet port
	3 x Audio jacks
	1 x Optical S/PDIF out port
	1 x BIOS FlashBack button
	1 x Clear CMOS button
	1 x FlexKey button

Internal I/O Connectors	Fan and Cooling Related
	1 x 4-pin CPU Fan header
	1 x 4-pin Extra Flow Fan header
	1 x 4-pin AIO Pump header
	1 x 4-pin Chassis Fan headers
	Power Related
	1 x 24-pin Main Power connector
	1 x 8-pin +12V CPU Power connector
	Storage Related
	2 x M.2 slots (Key M)
	2 x SATA 6Gb/s ports
	USB
	1 x USB 10Gbps connector (supports USB Type-C)
	1 x USB 5Gbps header supports 2 additional USB 5Gbps ports
	1 x USB 2.0 headers support 4 additional USB 2.0 ports
	Miscellaneous
	2 x Addressable Gen 2 headers
	1 x CPU Over voltage jumper
	1 x Front Panel Audio header (F_AUDIO)
	1 x 10-1 pin Front System Panel header
	1 x Thermal Sensor header

Special Features	Extreme Engine Digi+
	- 5K Black metallic capacitors
	ASUS Q-Design
	- M.2 Q-Latch
	- M.2 Q-Slide
	- PCIe Slot Q-Release Slim (with PCIe SafeSlot)
	- Q-Antenna
	- Q-Dashboard
	- Q-DIMM
	- Q-LED (CPU [red], DRAM [yellow], VGA [white], Boot Device [yellow green])
	- Q-Slot
	ASUS Thermal Solution
	- M.2 heatsink backplate
	- M.2 heatsink
	ASUS EZ DIY
	- BIOS FlashBack button
	- BIOS FlashBack LED
	- Clear CMOS button
	- ProCool
	- Pre-mounted I/O shield
	- SafeSlot
	- SafeDIMM
	Aura Sync
	- Addressable Gen 2 headers

Software Features	ROG Exclusive Software
	- ROG CPU-Z
	- Dolby Atmos
	ASUS Exclusive Software
	Armoury Crate
	- AIDA64 Extreme (60 days free trial)
	- Aura Creator
	- Aura Sync
	- Fan Xpert 4
	- GameFirst
	- HWiNFO
	- Power Saving
	ASUS DriverHub
	ASUS GlideX
	TurboV Core
	Adobe Creative Cloud (Free Trial)
	Norton 360 for Gamers (60 Days Free Trial)
	WinRAR (40 Days Free Trial)
	UEFI BIOS
	ASUS EZ DIY
	- ASUS CrashFree BIOS 3
	- ASUS EZ Flash 3
	- ASUS UEFI BIOS EZ Mode
	- ASUS MyHotkey
BIOS	256 Mb Flash ROM, UEFI AMI BIOS
Manageability	WOL by PME, PXE

Accessories	Cables
	2 x SATA 6Gb/s cables
	Miscellaneous
	1 x ASUS WiFi Q-Antenna
	1 x Cable ties package
	1 x M.2 backplate Q-Latch package(s)
	1 x M.2 Q-Slide package
	1 x ROG key chain
	1 x ROG Strix stickers
	1 x M.2 backplate rubber package(s)
	Documentation
	1 x Quick start guide
Operating System	Windows 11
Form Factor	Mini-ITX Form Factor
	6.7 inch x 6.7 inch (17 cm x 17 cm)

Product Information Online

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

Product page:
https://www.comx.co.za/ROG-STRIX-B850-I-GAMING-Asus-ROG-Strix-B850-I-Gaming-WiFi-AM5-Mini-ITX-Gaming-Motherboard-p-328246.php

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