ROG-STRIX-B860-G-GAMING-WIFI

Asus ROG Strix B860-G Gaming WiFi Intel Core Ultra Socket LGA 1851 mATX Motherboard

Product Overview

Asus ROG Strix B860-G Gaming WiFi Intel Core Ultra Socket LGA 1851 mATX Motherboard, Intel B860 Chipset, 4x DDR5 DIMM Memory slots, 1x DisplayPort, 1x HDMI Port, 1x Intel Thunderbolt 4 supports DisplayPort and Thunderbolt Video Outputs, 1x PCI-e 5.0 x16 slot, 4x M.2 slots supports up to PCI-e 5.0 x4 mode, 4x SATA 6Gb/s Ports, 1x Intel 2.5Gb Ethernet, Wi-Fi 7, Bluetooth V5.4, USB 20Gbps Ports (Type-C), USB 10Gbps Ports (Type-A), USB 5Gbps Ports (Type-A), USB 2.0 Ports (Type-A), 2x audio jacks, 1x Optical S/PDIF out Port, 1x BIOS FlashBack Button











Specifications

Overview:

ROG STRIX B860-G gaming wifi

Featuring Thunderbolt 4, PCIe 5.0, and Aura Sync lighting, the ROG Strix B860-G offers blazing-fast data transfers, outstanding connectivity, and a flexible aesthetic that adapts to bold or subtle preferences. Designed to meet the demands of elite gaming and advanced AI PC applications, it delivers the performance and speed you need.

Extreme Power & Performance

- ProCool Power Connectors
- Intel Socket LGA1851 For Intel Core Ultra Processors (Series 2)
- EXPANSION SLOT? 1 x PCIe 5.0 x16 SafeSlot
- 14(80A)+1(80A)+2(80A)+1(80A) Power Stages
- DDR5 9066+ MT/s (OC)? 4 x DIMM ? Dual Channel
- 4 x M.2 Slots?1 x M.2 2242/2260/2280 (PCIe5.0 x4) ?2 x M.2 2280 (PCIe4.0 x4) ?1 x M.2 2230/2280 (PCIe4.0 x4)

ASUS AI INTELLIGENCE

- ASUS AI ADVISORUsing AI technology to understandnatural-languagequestions or scenario descriptions, ASUS AI Advisor allows users to explore the functionality and advanced features of ASUS motherboards in a simple and straightforward way.
- AI NETWORKING IIAI Networking II combines intelligent technologies to continuously optimize network performance, provide trustworthy and seamless connectivity, and unleash the full speed of WiFi 7* .

PerformanceOVERCLOCKING

- NPU BOOSTThe integrated NPU in Intel Core Ultra Processors (Series 2) efficiently accelerates AI workflows - and NPU Boost lets you do more with it. This BIOS feature overclocks the NPU with just one click, increasing performance by up to 24%. * The overclocking performance may vary depending on the CPU series and motherboard used. ** Testing was conducted with an Intel Core Ultra 9 285K processor, ROG Maximus Z890 Extreme motherboard, GeForce RTX 4090 24GB graphics card, and XPG Lancer DDR5 memory modules (model AX5U6000C4016G).
- Asynchronous ClockFor next-level frequency flexibility, the ROG Strix B860-G features a built-in clock generator that isolates CPU base clock from memory, NPU, D2D and NGU. Drive memory, NPU and others performance to their absolute brink while maintaining the stability of CPU clock domains. Separate CPU BCLK from other domains for unfettered overclocking. *NGU stands for Next Generation Uncore.

Performance MEMORY

- DDR5 DOMINATIONEnhanced signal routing can push enthusiast-grade kits well beyond the 9 GT/s threshold on the Strix B860-G.
- AEMP IIIASUS Enhanced Memory Profile III (AEMP III) is an advanced firmware feature that empowers users to achieve unparalleled memory performance with cutting-edgeCUDIMM memory.

- DIMM FITDIMM Fit is an ASUS-exclusive BIOS feature that precisely analyzes individual memory modules to optimize performance and pinpoint potential issues.

Performance COOLING

- M.2M.2 HEATSINKS
- VRMVRM HEATSINK ARRAY
- CPUCPU FAN HEADERS, AIO PUMP FAN HEADER
- CHASSIS4-PIN FAN HEADERS

EZ PC DIY

- M.2 Q-Release
- M.2 Q-Slide
- New M.2 Q-LATCH
- PCIE SLOT Q-RELEASE SLIM
- Q-Antenna
- Q-LED
- CLEAR CMOS& BIOS FLASHBACK

BIOS Q-DASHBOARD

Simplify your motherboard configuration with BIOS Q-Dashboard. Its intuitive visual representation of hardware connections and corresponding BIOS settings takes the complexity out of setting up your system. Upgrade now, and discover the power of BIOS Q-Dashboard to easily and efficiently enhance your computing setup.

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 more comprehensive features for seasoned veterans.

TURBOV CORE

Intuitive overclocking within Windows. No BIOS interface, no reboots. Simple and swift performance tuning at your fingertips.

ASUS GLIDEX

ASUS GlideX is a cross-device, cross-platform screen-sharing, screen-control and operation solution for enhanced productivity across PCs, tablets, and smartphones via USB or WiFi. Features include screen mirroring, screen extension, unified control with one keyboard and mouse, easy file transfers, and using mobile cameras as PC webcams. It's compatible with Windows, macOS, Android, and iOS.

Specifications:

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Specifications	
Product Code	ROG-STRIX-B860-G-GAMING-WIFI
CPU	Support Intel Core Ultra Processors (Series 2)
	Supports Intel Turbo Boost Technology 2.0 and Intel Turbo Boost Max Technology 3.0
	** Intel Turbo Boost Max Technology 3.0 support depends on the CPU types.
Chipset	Intel B860 Chipset

Memory	4 x DIMM slots, max. 256GB, DDR5
	Supports up to 9066+MT/s (OC), Non-ECC Un-buffered, Clocked Unbuffered DIMM (CUDIMM)
	Dual channel memory architecture
	DIMM Fit
	Supports Intel Extreme Memory Profile (XMP) memory module
	ASUS Enhanced Memory Profile III(AEMPIII)
	** Non-ECC, un-buffered DDR5 memory supports On-Die ECC function.
Graphics	1 x DisplayPort
	1 x HDMI port
	1 x Intel Thunderbolt 4 supports DisplayPort and Thunderbolt video outputs
	* Graphics specifications may vary between CPU types.
	** Supports max. 4K@60Hz as specified in DisplayPort 1.4.
	* Supports 4K@60Hz as specified in HDMI 2.1.
	**Supports up to 8K@60Hz x1 with DSC, maximum total bandwidth up to 23.8Gbps, for resolution support please check DisplayPort 2.1 specs.
	*** VGA resolution support depends on processors' or graphic cards' resolution.
Expansion Slots	Intel Core Ultra Processors (Series 2)
	1 x PCIe 5.0 x16 slot
Storage	Total supports 4 x M.2 slots and 4 x SATA 6Gb/s ports
	Intel Core Ultra Processors (Series 2)
	M.2_1 slot (Key M), type 2242/2260/2280 (supports PCIe 5.0 x4 mode)
	Intel B860 Chipset
	M.2_2 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode)
	M.2_3 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode)
	M.2_4 slot (Key M), type 2230/2280 (supports PCIe 4.0 x4 mode)
	4 x SATA 6Gb/s ports
	* Intel Rapid Storage Technology supports
	SATA RAID 0/1/5/10.
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 support Wi-Fi 6E.
	For Windows 10, please note that no driver is available, please 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 10 ports)
	1 x Thunderbolt 4 port (1 x USB Type-C)
	1 x USB 20Gbps ports (1 x USB Type-C)
	1 x USB 10Gbps ports (1 x Type-A)
	3 x USB 5Gbps ports (3 x Type-A)
	4 x USB 2.0 ports (4 x Type-A)
	Front USB (Total 6 ports)
	1 x USB 10Gbps connector (supports USB Type-C)
	1 x USB 5Gbps header supports 2 additional USB 5Gbps ports
	2 x USB 2.0 header supports 3 additional USB 2.0 ports
	* USB Type-C power delivery output: max. 5V/3A

Audio	Realtek ALC1220P 7.1 Surround Sound
	High Definition Audio CODEC
	- Impedance sense for front and rear headphone outputs
	- Internal audio Amplifier to enhance the highest quality sound for headphone and speakers
	- Supports: Jack-detection, Multi-streaming, Front Panel Jack-retasking
	- High quality 120 dB SNR stereo playback output and 113 dB SNR recording input (Line-in)
	- Supports up to 32-Bit/192 kHz playback
	Audio Features
	- SupremeFX Shielding Technology
	- Savitech SV3H712 AMP
	- Rear optical S/PDIF out port
	- Premium audio capacitors
	- Dedicated audio PCB layers
	- Audio cover
	* Due to limitations in HDA bandwidth, 32-Bit/192 kHz is not supported for 7.1 Surround Sound audio.
	** A chassis with an HD audio module in the front panel is required to support 7.1 Surround Sound audio output.
Back Panel I/O Ports	1 x Thunderbolt 4 USB Type-C port(s)
	1 x USB 20Gbps port(s) (1 x USB Type-C with DP Alt mode)
	1 x USB 10Gbps port(s) (1 x Type-A)
	3 x USB 5Gbps port(s) (3 x Type-A)
	4 x USB 2.0 port(s) (4 x Type-A)
	1 x DisplayPort
	1 x HDMI port
	1 x Wi-Fi module1 x Intel 2.5Gb Ethernet port
	2 x Audio jacks
	1 x Optical S/PDIF out port
	1 x BIOS FlashBack button
	1 x Clear CMOS button

Internal I/O Connectors	Fan and Cooling Related
	1 x 4-pin CPU Fan header
	1 x 4-pin CPU OPT Fan header
	1 x 4-pin AIO Pump header
	2 x 4-pin Chassis Fan headers
	Power Related
	1 x 24-pin Main Power connector
	2 x 8-pin +12V CPU Power connector
	Storage Related
	4 x M.2 slots (Key M)
	4 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
	2 x USB 2.0 header supports 3 additional USB 2.0 ports Miscellaneous
	3 x Addressable Gen2 header(s)
	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-Release
	- 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
	- VRM heatsink design
	ASUS EZ DIY
	- BIOS FlashBack button
	- BIOS FlashBack LED
	- Clear CMOS button
	- CPU Socket lever protector
	- ProCool
	- Pre-mounted I/O shield
	- SafeSlot
	- SafeDIMM
	Aura Sync
	- Addressable Gen2 headers

Software Features	ROG Exclusive Software
	- ROG CPU-Z
	- Dolby Atmos
	ASUS Exclusive Software
	Armoury Crate
	- Aura Creator
	- Aura Sync
	- Fan Xpert 4
	- GameFirst
	- Power Saving
	AIDA64 Extreme (60 days free trial)
	HWiNFO
	ASUS AI Advisor
	ASUS DriverHub
	ASUS GlideX
	TurboV Core
	Adobe Creative Cloud 30 Days Free Trial)
	Norton 360 for Gamers (60 Days Free Trial)
	WinRAR (40 Days Free Trial)
	UEFI BIOS
	AI Overclocking Guide
	ASUS EZ DIY
	- ASUS CrashFree BIOS 3
	- ASUS EZ Flash
	- ASUS UEFI BIOS EZ Mode
	- ASUS MyHotkey
	NPU Boost
BIOS	256 Mb Flash ROM, UEFI AMI BIOS
Manageability	WOL by PME, UEFI 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 Q-Latch
	1 x M.2 Q-Slide
	1 x ROG key chain
	1 x ROG Strix stickers
	3 x M.2 rubbers
	1 x M.2 backplate rubber package(s)
	Documentation
	1 x Quick start guide
Operating System	Windows 11 (22H2 & later)
Form Factor	micro-ATX Form Factor
	9.6 inch x 9.6 inch (24.4 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.co.za/ROG-STRIX-B860-G-GAMING-WIFI-Asus-ROG-Strix-B860-G-Gaming-WiFi-Intel-Core-Ultra-Socket-p-318953.php

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