



ROG STRIX B860-F GAMING WIFI



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NEWS & UPDATES

CPU

Intel® Socket LGA1851 for Intel® Core™ Ultra Processors(Series 2)

Supports Intel® Turbo Boost Technology 2.0 and Intel® Turbo Boost Max Technology 3.0**

*Refer to <https://www.asus.com/support/download-center/> for CPU support list.

** Intel® Turbo Boost Max Technology 3.0 support depends on the CPU types.

CHIPSET

Intel® B860 Chipset



MEMORY

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*Adjustments will be made based on the specifications of mass-produced memory products available on the market.

* Supported memory types, data rate (speed), and number of DRAM modules vary depending on the CPU and memory configuration, for more information please refer to CPU/Memory Support list under the Support tab of product information site or visit <https://www.asus.com/support/download-center/>.

* Non-ECC, un-buffered DDR5 memory supports On-Die ECC function.

GRAPHICS

1 x DisplayPort**

1 x HDMI™ port***

1 x Intel® Thunderbolt™ 4 port (USB Type-C®) supports DisplayPort and Thunderbolt™ video outputs****

* Graphics specifications may vary between CPU types. Please refer to www.intel.com for any updates.

** Supports max. 8K@60Hz with DSC as specified in DisplayPort 1.4.

*** Supports 8K@60Hz with DSC as specified in HDMI 2.1.

**** In Thunderbolt™ 4 mode, supports up to 8K@60Hz x1 with DSC or 4K@60Hz x 2, maximum total bandwidth up to 23.8Gbps or 16Gbps/16Gbps, for resolution support please check DisplayPort 2.1 specs.

***** VGA resolution support depends on processors' or graphic cards' resolution.

***** While installing the operating system, please ensure that your monitor is connected to the HDMI port on the back I/O panel or to a discrete graphics card.

EXPANSION SLOTS

Intel® Core™ Ultra Processors(Series 2)

1 x PCIe 5.0 x16 slot (supports x16 mode)

Intel® B860 Chipset

1 x PCIe 4.0 x16 slot (supports x4 mode)

- To ensure compatibility of the device installed, please refer to <https://www.asus.com/support/download-center/> for the list of supported peripherals.



M.2_3 slot (Key M), type 2280/22110 (supports PCIe 4.0 x4 mode)

M.2_4 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode)*

4 x SATA 6Gb/s ports**

* M.2_4 slot shares bandwidth with PCIe16(G4). When M.2_4 is occupied with SSD device, PCIe16(G4) will be disabled.

** 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*

◇ 2x 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 or later will 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.

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FRONT USB (Total 6 ports)

- 1 x USB 10Gbps (1 x USB Type-C®)
- 1 x USB 5Gbps header supports 2 additional USB 5Gbps ports
- 2 x USB 2.0 headers support 3 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 Thunderbolt™ 4 (1 x USB Type-C®)
- 1 x USB 20Gbps port (1 x USB Type-C®)
- 1 x USB 10Gbps port (1 x Type-A)
- 6 x USB 5Gbps ports (6 x Type-A)
- 1 x DisplayPort



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
- 4 x 4-pin Chassis Fan headers

Power Related

- 1 x 24-pin Main Power connector
- 2 x 8-pin +12V CPU Power connectors

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 headers support 3 additional USB 2.0 ports

Miscellaneous

- 3 x Addressable Gen2 headers
- 1 x Chassis Intrusion header
- 1 x Front Panel Audio header (F_AUDIO)
- 1 x Start button
- 1 x 10-1 pin Front System Panel header
- 1 x Thermal Sensor header
- 1 x Thunderbolt™ (USB4[®]) header

SPECIAL FEATURES

Extreme Engine Digi+

- 5K Black metallic capacitors

ASUS Q-Design



Intel® Core™ Ultra™ 5 processor

- 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

ASUS Driver Hub

AIDA64 Extreme (60 days free trial)

HWiNFO

ASUS GlideX

TurboV Core

Adobe Creative Cloud (Days Free Trial)



Accessories

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 Q-Latch package

1 x M.2 Q-Slide package

1 x ROG key chain

1 x ROG Strix stickers

4 x M.2 rubbers

Documentation

1 x Quick start guide



12 inch x 9.6 inch (30.5 cm x 24.4 cm)



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- WiFi 6E availability and features are dependent on regulatory limitations and co-existence with 5 GHz WiFi.
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