

# TUF GAMING B860M-PLUS

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**Model** TUF GAMING B860M-PLUS

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## CPU

Support Intel® Core™ Ultra Processors (Series 2) , LGA1851\*  
 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

4 x DIMM slots, max. 256GB, DDR5  
 Support up to 8800+MT/s (OC), Non-ECC,Un-buffered ,CI Unbuffered DIMM (CUDIMM)\*  
 Dual Channel Memory Architecture  
 DIMM Fit

Supports Intel® Extreme Memory Profile (XMP) memory module

ASUS Enhanced Memory Profile III(AEMPIII)

\* 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 USB 20Gbps port (USB Type-C®) supports DisplayPort video output\*\*

\*Graphics specifications may vary between CPU types. Please refer to [www.intel.com](http://www.intel.com) for any updates.

\*\* Supports max. 4K@60Hz as specified in DisplayPort 1.4.

\*\*\*Supports 4K@60Hz as specified in HDMI 2.1.

\*\*\*\* 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

**Intel® B860 Chipset**

1 x PCIe 4.0 x4 slot

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

## Storage

**Supports 3 x M.2 slots and 4 x SATA 6Gb/s ports\***

**Intel® Core™ Ultra Processors(Series 2)\***

M.2\_1 slot (Key M), type 2280 (supports PCIe 5.0 x4 mode)

**Intel® B860 Chipset**

M.2\_2 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)

M.2\_3 slot (Key M), type 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 Realtek 2.5Gb Ethernet  
TUF LANGuard

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## USB

### Rear USB (Total 8 ports)

1 x USB 20Gbps port (1 x USB Type-C®)  
2 x USB 10Gbps port (2 x Type-A)  
4 x USB 5Gbps ports (4 x Type-A)  
1 x USB 2.0 ports (1 x Type-A)

### Front USB (Total 8 ports)

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 2 additional USB 2.0 ports  
\* USB Type-C® power delivery output: max. 5V/3A

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## Audio

Realtek 7.1 Surround Sound High Definition Audio CODEC  
- Supports: Jack-detection, Multi-streaming, Front Panel Jack-retasking  
- Supports up to 24-Bit/192 kHz playback

### Audio Features

- Audio Shielding
- Rear optical S/PDIF out port
- Premium audio capacitors
- Dedicated audio PCB layers

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## Back Panel I/O Ports

1 x USB 20Gbps port (1 x USB Type-C® with DP Alt mode)  
2 x USB 10Gbps port (2 x Type-A)  
4 x USB 5Gbps ports (4 x Type-A)  
1 x USB 2.0 port (1 x Type-A)  
1 x DisplayPort  
1 x HDMI™ port  
1 x Realtek 2.5Gb Ethernet port  
5 x Audio jacks  
1 x Optical S/PDIF out port

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## Internal I/O Connectors

### 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  
3 x 4-pin Chassis Fan headers

### Power related

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

**Storage related**

- 3 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
- 1 x USB 2.0 header supports 2 additional USB 2.0 ports

**Miscellaneous**

- 3 x Addressable Gen 2 headers
  - 1 x Clear CMOS header
  - 1 x Chassis Intrusion header
  - 1 x Front panel audio header (F\_AUDIO)
  - 1 x 10-1 pin Front System Panel header
  - 1 x Thunderbolt™ (USB4®) header
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## Special Features

**ASUS TUF PROTECTION**

- DIGI+ VRM (- Digital power design with DrMOS)
- ESD Guards
- TUF LANGuard
- Overvoltage Protection
- SafeSlot
- Stainless-Steel Back I/O

**ASUS Q-Design**

- M.2 Q-Latch
- PCIe Slot Q-Release
- Q-Dashboard
- Q-DIMM
- Q-LED (CPU [red], DRAM [yellow], VGA [white], Boot Device [yellow green])

**ASUS Thermal Solution**

- M.2 heatsinks
- VRM heatsink design

**ASUS EZ DIY**

- CPU Socket lever protector
- ProCool
- Pre-mounted I/O shield
- SafeDIMM

**AURA Sync**

- Addressable Gen 2 headers
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## Software Features

**ASUS Exclusive Software**

- Armoury Crate
- AURA Creator
- AURA Sync
- Fan Xpert 2+
- Power Saving
- ASUS DriverHub
- TurboV Core
- TUF GAMING CPU-Z

DTS Audio Processing  
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  
- ASUS UEFI BIOS EZ Mode  
- ASUS MyHotkey  
NPU Boost

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## BIOS

2 x 128 Mb Flash ROM, UEFI AMI BIOS

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## Manageability

WOL by PME, PXE

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## Accessories

### Cables

2 x SATA 6Gb/s cables

### Miscellaneous

2 x M.2 Rubber Packages

1 x TUF Gaming sticker

1 x Screw package for M.2 SSD

### Documentation

1 x Quick start guide

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## Operating System

Windows® 11, Windows® 10 64-bit

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## Form Factor

mATX Form Factor  
9.6inch x 9.6 inch ( 24.4 cm x 24.4 cm )

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