

## MB AM5 ASUS TUF GAMING B850M-PLUS WIFI



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Model  
TUF GAMING B850M-PLUS WIFI

### News & Updates

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#### CPU

AMD Socket AM5 for AMD Ryzen™ 9000 & 8000 & 7000 Series Desktop Processors\*

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

#### Chipset

AMD B850 Chipset

#### Memory

4 x DIMM slots, max. 256GB, DDR5

Supports up to 8000+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)

\* 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\*\*\*

\* Graphics specifications may vary between CPU types. Please refer to AMD CPU specifications.

\*\* Supports max. 8K@30Hz as specified in DisplayPort 1.4.

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

#### Expansion Slots

**AMD Ryzen™ 9000 & 7000 Series Desktop Processors\***

1 x PCIe 5.0 x16 slot (supports x16 mode)

**AMD Ryzen™ 8000 Series Desktop Processors**

1 x PCIe 4.0 x16 slot (supports x8/x4 mode)\*\*

**AMD B850 Chipset**

1 x PCIe 4.0 x1 slot

\* Please check the PCIe bifurcation table on the support site (<https://www.asus.com/support/FAQ/1037507/>).

\*\* Specifications vary by CPU types.

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

#### Storage

**Total supports 3 x M.2 slots and 4 x SATA 6Gb/s ports**

**AMD Ryzen™ 9000 & 7000 Series Desktop Processors**

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

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

### **AMD Ryzen™ 8000 Series Desktop Processors**

M.2\_1 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode)

M.2\_2 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4/x2 mode)\*

### **AMD B850 Chipset**

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

4 x SATA 6Gb/s ports

\* Specifications vary by CPU types.

### **AMD RAIDXpert2 Technology**

Ryzen™ 9000 Series Processors: RAID 0/1/5/10

Ryzen™ 8000 Series Processors: RAID 0/1

Ryzen™ 7000 Series Processors: RAID 0/1/10

Ethernet

1 x Realtek 2.5Gb Ethernet

TUF LANGuard

Wireless & Bluetooth

Wi-Fi 6E

2x2 Wi-Fi 6E (802.11ax)

Supports 2.4/5/6GHz frequency band\*

Bluetooth® v5.3\*\*

\* WiFi 6E 6GHz regulatory may vary between countries, supported only in Windows 11 or later.

\*\* The Bluetooth® version may vary, please refer to the Wi-Fi module manufacturer's website for the latest specifications.

USB

### **Rear USB (Total 12 ports)**

1 x USB 20Gbps port (1 x USB Type-C®)

3 x USB 10Gbps ports (3 x Type-A)

4 x USB 5Gbps ports (4 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 headers support 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**

- Audio Shielding

- Premium audio capacitors

- Dedicated audio PCB layers

- Audio cover

- Unique de-pop circuit

\* Due to limitations in HDA bandwidth, 32-Bit/192 kHz is not supported for 7.1 Surround Sound audio.

Back Panel I/O Ports

1 x USB 20Gbps port (1 x USB Type-C®)

3 x USB 10Gbps ports (3 x Type-A)

4 x USB 5Gbps ports (4 x Type-A)

4 x USB 2.0 ports (4 x Type-A)

1 x DisplayPort

1 x HDMI™ port

1 x Wi-Fi module

1 x Realtek 2.5Gb Ethernet port

5 x Audio jacks

1 x BIOS FlashBack™ 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
- 3 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**

- 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
- 2 x USB 2.0 headers support 3 additional USB 2.0 ports

#### **Miscellaneous**

- 3 x Addressable Gen 2 headers
- 1 x Clear CMOS header
- 1 x Chassis Intrusion header
- 1 x COM Port header
- 1 x Front Panel Audio header (F\_AUDIO)
- 1 x 10-1 pin Front Panel System header

#### **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-Antenna
- Q-Dashboard
- Q-DIMM
- Q-LED (CPU [red], DRAM [yellow], VGA [white], Boot Device [yellow green])

#### **ASUS Thermal Solution**

- M.2 heatsink
- VRM heatsink design

#### **ASUS EZ DIY**

- BIOS FlashBack™ button
- BIOS FlashBack™ LED
- ProCool
- Pre-mounted I/O shield
- SafeDIMM

#### **Aura Sync**

- Addressable Gen2 headers

#### **Software Features**

#### **ASUS Exclusive Software**

#### **Armoury Crate**

- Aura Creator
- Aura Sync
- Fan Xpert 4
- Power Saving

#### **ASUS DriverHub**

#### **ASUS GlideX**

#### **TurboV Core**

#### **TUF GAMING CPU-Z**

#### **DTS Audio Processing**

#### **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 TUF GAMING sticker

2 x M.2 rubber packages

1 x Screw package for M.2 SSD

### **Documentation**

1 x Quick start guide

Operating System

Windows 11, Windows 10 64-bit

Form Factor

micro-ATX Form Factor

9.6 inch x 9.6 inch (24.4 cm x 24.4 cm)