

MB AM5 ASUS TUF GAMING B650M-PLUS

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Kategorija proizvoda: AMD MATIČNE PLOČE
Proizvođač: Asus

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Model

TUF GAMING B650M-PLUS

CPU

AMD Socket AM5 for AMD Ryzen™ 7000 Series
Desktop Processors*

* Refer to www.asus.com for CPU support list.

Chipset

AMD B650

Memory

4 x DIMM, Max. 192GB, DDR5
7600+(OC)/7200(OC)/7000(OC)/6800(OC)/6600(OC)/6400(OC)/
6200(OC)/6000(OC)/5800(OC)/5600(OC)/5400(OC)/5200/5000/4800 ECC and Non-ECC, Un-buffered
Memory*

Dual Channel Memory Architecture

Supports AMD EXTended Profiles for Overclocking (EXPO™)

OptiMem II

* Supported memory types, data rate(Speed), and number of DRAM modules vary depending on the CPU and memory configuration, for more information refer to www.asus.com for memory support list.

** Non-ECC, Un-buffered DDR5 Memory supports On-Die ECC function

Graphics

1 x DisplayPort*

1 x HDMI® port**

* Supports max. 8K@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.

Expansion Slots

AMD Ryzen™ 7000 Series Desktop Processors*

1 x PCIe 4.0/3.0 x16 slot

AMD B650 Chipset

1 x PCIe 4.0/3.0 x16 slot (supports x4 mode)

1 x PCIe 4.0/3.0 x1 slot

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

Storage

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

AMD Ryzen™ 7000 Series Desktop Processors

M.2_1 slot (Key M), type 2242/2260/2280 (supports PCIe 5.0 x4 mode)

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

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4 x SATA 6Gb/s ports

*AMD RAIDXpert2 Technology supports both NVMe RAID 0/1/10 and SATA RAID 0/1/10.

Ethernet

1 x Realtek 2.5Gb Ethernet
TUF LANGuard

USB

Rear USB (Total 8 ports)

- 1 x USB 3.2 Gen 2x2 port (1 x USB Type-C®)
- 2 x USB 3.2 Gen 2 ports (2 x Type-A)
- 1 x USB 3.2 Gen 1 port (1 x Type-A)
- 4 x USB 2.0 ports (4 x Type-A)

Front USB (Total 7 ports)

- 1 x USB 3.2 Gen 1 connector (supports USB Type-C®)
- 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports
- 2 x USB 2.0 headers support additional 4 USB 2.0 ports

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
- Premium audio capacitors
- Dedicated audio PCB layers

Back Panel I/O Ports

- 1 x USB 3.2 Gen 2x2 port (1 x USB Type-C®)
- 2 x USB 3.2 Gen 2 ports (2 x Type-A)
- 1 x USB 3.2 Gen 1 port (1 x Type-A)
- 4 x USB 2.0 ports (4 x Type-A)
- 1 x DisplayPort
- 1 x HDMI® port
- 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
- 1 x 8-pin +12V Power connector
- 1 x 4-pin +12V Power connector

Storage related

- 2 x M.2 slots (Key M)
- 4 x SATA 6Gb/s ports

USB

- 1 x USB Gen 1 connector (supports USB Type-C®)
- 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports
- 2 x USB 2.0 headers support additional 4 USB 2.0 ports

Miscellaneous

- 3 x Addressable Gen 2 headers
- 1 x Aura RGB header
- 1 x Clear CMOS header
- 1 x COM Port header
- 1 x Front Panel Audio header (AAFP)
- 1 x 20-3 pin System Panel header with Chassis intrude function
- 1 x Thunderbolt™ (USB4®) header

Special Features

ASUS TUF PROTECTION

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

ASUS Q-Design

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

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

- Aura RGB header
- Addressable Gen 2 headers

Software Features

ASUS Exclusive Software

Armoury Crate

- Aura Creator

- Aura Sync

- Fan Xpert 2+

- Power Saving

- Two-Way AI Noise Cancellation

AI Suite 3

-TurboV EVO

-DIGI+ VRM

-PC Cleaner

TUF GAMING CPU-Z

DTS Audio Processing

Norton Anti-virus software (Free Trialversion)

WinRAR

UEFI BIOS

ASUS EZ DIY

- ASUS CrashFree BIOS 3

- ASUS EZ Flash 3

- ASUS UEFI BIOS EZ Mode

BIOS

256 Mb Flash ROM, UEFI AMI BIOS

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)