

## MB s1700 ASUS TUF GAMING B660M-P D4

Šifra: 21078

Kategorija proizvoda: Matične ploče

Proizvođač: ASUS

Cena: **22.240,00**



## CPU

Intel® Socket LGA1700 for 12th Gen Intel® Core™, Pentium® Gold and Celeron® Processors  
Intel® Socket LGA1700 for 12th Gen Intel® Core™, Pentium® Gold and Celeron® Processors\*  
Supports Intel® Turbo Boost Technology 2.0 and Intel® Turbo Boost Max Technology 3.0\*\*  
\* Refer to [www.asus.com](http://www.asus.com) for CPU support list.

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

## Memory

4 x DIMM, Max. 128GB, DDR4

5333(OC)/5066(OC)/5000(OC)/4800(OC)/4600(OC)/4400(OC)/4266(OC)/4000(OC)/3866(OC)/3733(OC)/3600(OC)

Non-ECC, Un-buffered Memory\*

Dual Channel Memory Architecture

Supports Intel® Extreme Memory Profile (XMP)

OptiMem II

\*Actual memory data rate depends on the CPU types and DRAM modules, for more information refer to [www.asus.com](http://www.asus.com) for memory support list.

## Graphics

1 x DisplayPort\*\*

1 x HDMI® port\*\*\*

\*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' resolution.

## Expansion Slots

**Intel® 12th Gen Processors**

1 x PCIe 5.0 x16 slot

**Intel® B660 Chipset\***

1 x PCIe 3.0 x16 slot (supports x4 mode)

1 x PCIe 4.0 x1 slot

\* Supports Intel® Optane Memory H Series on PCH-attached PCIe slot.

## Storage

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

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

**Intel® 12th Gen Processors**

M.2\_1 slot (Key M), type 2242/2260/2280

- Intel® 12th Gen processors support PCIe 4.0 x4 mode.

**Intel® B660 Chipset\*\***

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

4 x SATA 6Gb/s ports

\* Intel® Rapid Storage Technology supports SATA RAID 0/1/5/10.

\*\* Intel® Rapid Storage Technology supports Intel® Optane Memory H Series on PCH attached M.2 slots.

## Ethernet

TUF LANGuard

1 x Realtek 2.5Gb Ethernet

TUF LANGuard

## USB

Rear USB:Total 8 ports

### Total 8 ports

1 x USB 3.2 Gen 2x2 port (1 x USB Type-C®)

4 x USB 3.2 Gen 2 ports (4 x Type-A)

1 x USB 3.2 Gen 1 port (1 x Type-A)

2 x USB 2.0 ports (2 x Type-A)

Front USB:Total 7 ports

### 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

- Power pre-regulator reduces power input noise to ensure consistent performance

- Rear optical S/PDIF out port

- 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®)

4 x USB 3.2 Gen 2 ports (4 x Type-A)

1 x USB 3.2 Gen 1 port (1 x Type-A)

2 x USB 2.0 ports (2 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

## 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 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

### 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-pin System Panel header with Chassis intrude function
- 1 x Thunderbolt™ header

## Special Features

### ASUS TUF PROTECTION

- DIGI+ VRM (- Digital power design with DrMOS)
- Enhanced DRAM Overcurrent Protection
- ESD Guards
- TUF LANGuard
- Overvoltage Protection
- SafeSlot
- 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

- Flexible M.2 heatsink
- VRM heatsink design

### ASUS EZ DIY

- CPU Socket lever protector
- 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+
- Two-Way AI Noise Cancelation

AI Suite 3

- Performance And Power Saving Utility

TurboV EVO

EPU

DIGI+ VRM

TUF GAMING CPU-Z

DTS Audio Processing

MyASUS

Norton Anti-virus software (Free Trial version)

WinRAR

### UEFI BIOS

ASUS EZ DIY

- ASUS CrashFree BIOS 3
- ASUS EZ Flash 3
- ASUS UEFI BIOS EZ Mode

## BIOS

128 Mb Flash ROM, UEFI AMI BIOS

## Manageability

WOL by PME, PXE

## Operating System

Windows® 11, Windows® 10 64-bit

## Cables

2 x SATA 6Gb/s cables

### **Miscellaneous**

1 x ASUS Wi-Fi moving antennas

1 x M.2 Rubber Package

1 x M.2 SSD screw package

1 x TUF Gaming sticker

### **Installation Media**

1 x Support DVD

### **Documentation**

1 x TUF Certification card

1 x User guide

## **Form Factor**

microATX

24.4cm x 24.4cm