



ROG STRIX B660-A GAMING WIFI D4

CPU

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 for CPU support list.

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

Chipset

Intel® B660 Chipset

Memory

4 x DIMM, Max. 128GB, DDR4 5333(OC) /5000(OC)/4800(OC)/4600(OC)/4400(OC)/4266(OC) /4000(OC)/3733(OC)/3600(OC)/3466(OC)/3400(OC)/3333(OC)/3200/3000/2933/2800 /2666/2400/2133 Non-ECC, Un-buffered Memory*

Dual Channel Memory Architecture

OptiMem II

*Actual Memory frequency support depends on the CPU types and DRAM modules, for more information refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).

Graphics

1 x DisplayPort**

1 x HDMI[®] port***

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

** Support 4K@60Hz as specified in DisplayPort 1.4.

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

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

Expansion Slots

Intel[®] 12th Gen Processors

1 x PCIe 5.0/4.0/3.0 x16 slot(s)*

Intel[®] B660 Chipset**

1 x PCIe 3.0 x16 slot (supports x4 mode)*

2 x PCIe 3.0 x1 slots

* Please check PCIe bifurcation table in User Guide Chapter 1 // support site.

** Supports Intel[®] Optane Memory H Series on PCH-attached PCIe slot

Storage

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

Intel® 12th Gen Processors

M.2_1 slot (Key M), type 2242/2260/2280/22110

- 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 x2 mode)

M.2_3 slot (Key M), type 2242/2260/2280/22110 (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 Intel® 2.5Gb Ethernet

ASUS LANGuard

Wireless & Bluetooth

Wi-Fi 6

2x2 Wi-Fi 6 (802.11 a/b/g/n/ac/ax)

Supports 2.4/5GHz frequency band

Bluetooth v5.2

USB

Rear USB (Total 9 ports)

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

1 x USB 3.2 Gen 2 port(s) (1 x Type-A)

3 x USB 3.2 Gen 1 port(s) (2 x Type-A + 1 x USB Type-C[®])

4 x USB 2.0 port(s) (4 x Type-A)

Front USB (Total 6 ports)

1 x USB 3.2 Gen 2 connector (supports USB Type-C[®])

1 x USB 3.2 Gen 1 header(s) support(s) additional 2 USB 3.2 Gen 1 ports

1 x USB 2.0 10-1 pin header + 1 USB 2.0 4 pin header support additional 3 USB 2.0 ports

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 Jack-retasking

- High quality 120 dB SNR stereo playback output and 113 dB SNR recording input

- Supports up to 32-Bit/384 kHz playback

Audio Features

- SupremeFX Shielding Technology

- Savitech SV3H712 AMP

- Premium audio capacitors

- Audio cover

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

** A chassis with an HD audio module in the front panel is required to support 7.1 Surround Sound audio output.

Back Panel I/O Ports

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

1 x USB 3.2 Gen 2 port(s) (1 x Type-A)

3 x USB 3.2 Gen 1 port(s) (2 x Type-A + 1 x USB Type-C[®])

4 x USB 2.0 port(s) (4 x Type-A)

1 x DisplayPort

1 x HDMI[®] port

1 x Wi-Fi Module

1 x Intel[®] 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(s)

1 x 4-pin CPU OPT Fan header(s)

1 x 4-pin AIO Pump header(s)

3 x 4-pin Chassis Fan header(s)

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

3 x M.2 slots (Key M)

4 x SATA 6Gb/s ports

USB

1 x USB 3.2 Gen 2 connector (support USB Type-C[®])

1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports

1 x USB 2.0 10-1pin header + 1 USB 2.0 4pin header support additional 3 USB 2.0 ports

Miscellaneous

3 x Addressable Gen 2 headers

1 x AURA RGB header

1 x Clear CMOS header

1 x Front Panel Audio header (AAFP)

1 x S/PDIF Out header

1 x SPI TPM header (14-1pin)

1 x 20-3 pin System Panel header with Chassis intrude function

1 x Thunderbolt™ header

Special Features

Extreme Engine Digi+

-5K Black Metallic Capacitors

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

- CPU Socket lever protector

- Pre-mounted I/O shield

- SafeSlot

- SafeDIMM

AURA Sync

- AURA RGB header(s)

- Addressable Gen 2 header(s)

Software Features

ROG Exclusive Software

- GameFirst VI

- ROG CPU-Z

- Sonic Studio III + Sonic Studio Virtual Mixer + Sonic Suite Companion

- Sonic Radar III

- DTS® Sound Unbound

- Anti-virus software

ASUS Exclusive Software

Armoury Crate

- AIDA64 Extreme (60 days free trial)

- AURA Creator

- AURA Sync

- Fan Xpert 4

- Two-Way AI Noise Cancelation

AI Suite 3

- Performance And Power Saving Utility

TurboV EVO

EPU

DIGI+ VRM

Turbo app

MyAsus

WinRAR

UEFI BIOS

ASUS EZ DIY

- ASUS CrashFree BIOS 3

- ASUS EZ Flash 3

- ASUS UEFI BIOS EZ Mode

BIOS

192 Mb Flash ROM, UEFI AMI BIOS

Manageability

WOL by PME, PXE

Accessories

Cables

4 x SATA 6Gb/s cables

Miscellaneous

1 x ASUS Wi-Fi moving antennas

1 x Cable ties pack

1 x M.2 Rubber Package(s)

1 x M.2 Q-Latch package(s)

1 x ROG key chain

1 x ROG Strix stickers

1 x ROG Strix thank you card

Installation Media

1 x Support DVD

Documentation

1 x User guide

Operating System

Windows[®] 11 64-bit, Windows[®] 10 64-bit

Form Factor

ATX Form Factor

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