

MB AM5 ASUS TUF GAMING X870-PLUS WIFI

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Kategorija proizvoda: Matične ploče
Proizvođač: ASUS

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Model
TUF GAMING X870-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 X870 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 HDMI™ port**

2 x USB4® (40Gbps) ports support USB Type-C® display outputs***

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

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

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

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

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 X870 Chipset

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

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

** The PCIe16(G5) shares bandwidth with M.2_2. The PCIe16(G5) will run to x8 mode when M.2_2 runs.

*** Specifications vary by CPU types.

**** The PCIe16(G4) shares bandwidth with M.2_4. The PCIe16(G4) will be disabled when M.2_4 runs.

- 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 4 x M.2 slots and 2 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 2280 (supports PCIe 5.0 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 not support

AMD X870 Chipset

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

M.2_4 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 4.0 x4 mode)***

2 x SATA 6Gb/s ports

* AMD RAIDXpert2 Technology supports both PCIe RAID 0/1/5/10 and SATA RAID 0/1. RAID 5 Function is only supported by AMD Ryzen™ 9000 series CPU.

** The PCIe16(G5) shares bandwidth with M.2_2. The PCIe16(G5) will run to x8 mode when M.2_2 runs.

*** The PCIe16(G4) shares bandwidth with M.2_4. The PCIe16(G4) will be disabled when M.2_4 runs.

Ethernet

1 x Realtek 2.5Gb Ethernet

TUF LANGuard

Wireless & Bluetooth

Wi-Fi 7*

2x2 Wi-Fi 7 (802.11be)

Supports 2.4/5/6GHz frequency band**

Supports Wi-Fi 7 160MHz bandwidth, up to 2.9Gbps transfer rate.

Bluetooth® v5.4***

*Wi-Fi features may vary depending on the operating system

For Windows 11, Wi-Fi 7 will require 24H2 or later version for full functions, Windows 11 21H2/22H2/23H2 only support Wi-Fi 6E.

** Wi-Fi 6GHz frequency band and bandwidth regulatory may vary between countries.

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

USB

Rear USB (Total 10 ports)

2 x USB4® (40Gbps) ports (2 x USB Type-C®)*

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

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

1 x USB 2.0 port (1 x Type-A)

Front USB (Total 7 ports)

1 x USB 20Gbps connector (supports USB Type-C® with up to 30W PD Fast-charge)**

1 x USB 5Gbps header supports 2 additional USB 5Gbps ports

2 x USB 2.0 headers support 4 additional USB 2.0 ports

* USB Type-C® power delivery output: max. 5V/3A

** USB Type-C® power delivery output: 5V/9V max. 3A, 12V max. 2.5A, 15V max. 2A.

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

2 x USB4® (40Gbps) (2 x USB Type-C®) ports

3 x USB 10Gbps ports (3 x Type-A)
4 x USB 5Gbps ports (4 x Type-A)
1 x USB 2.0 port (1 x Type-A)
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
4 x 4-pin Chassis Fan headers
1 x W_PUMP+ header

Power Related

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

Storage Related

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

USB

1 x USB 20Gbps connector (supports USB Type-C® with up to 30W PD Fast-charge)
1 x USB 5Gbps header supports 2 additional USB 5Gbps ports
2 x USB 2.0 headers support 4 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 System Panel header
1 x Thermal Sensor header

Special Features

ASUS TUF PROTECTION

- DIGI+ VRM (- Digital power design with SPS)
- 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])
- Q-Slot

ASUS Thermal Solution

- M.2 heatsinks
- VRM heatsink design

ASUS EZ DIY

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

Aura Sync

- Addressable Gen 2 headers

Front Panel USB 20Gbps with PD Fast Charge Support

- Support: up to 30W fast charging and USB Wattage Watcher
- Output: 5V/9V max. 3A, 12V max. 2.5A, 15V max. 2A
- Compatible with PD3.0

Software Features

ASUS Exclusive Software

Armoury Crate

- Aura Creator
- Aura Sync
- Fan Xpert 4 (with AI Cooling II)
- Power Saving

ASUS DriverHub

ASUS GlideX

USB Wattage Watcher

TurboV Core

TUF GAMING CPU-Z

DTS Audio Processing

Norton 360 for Gamers (60 Days Free Trial)

WinRAR (40 Days Free Trial)

UEFI BIOS

AI Overclocking Guide

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
- 2 x M.2 rubber packages
- 1 x Screw package for M.2 SSD
- 1 x TUF GAMING sticker

Documentation

1 x Quick start guide

Operating System

Windows 11

Form Factor

ATX Form Factor

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

Link: <https://www.asus.com/motherboards-components/motherboards/tuf-gaming/tuf-gaming-x870-plus-wifi/techspec/>