ASUS ROG STRIX X870E-E GAMING WIFI (Socket AM5/X870E/DDR5/S-ATA 6Gb/s/ATX)

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

Chipset
AMD X870E

Memory
4 x DIMM slots, max. 192GB, DDR5

Supports up to 8000+MT/s(OC) with Ryzen™ 9000 Series Processors, 8400+MT/s(OC) with Ryzen™ 8000 Series Processors, 8000+MT/s(OC) with Ryzen™ 7000 Series Processors

ECC and Non-ECC Un-buffered DIMM

Dual Channel Memory Architecture

Supports AMD EXTended Profiles for Overclocking (EXPO™)

NitroPath DRAM Technology

ASUS Enhanced Memory Profile (AEMP)

* Supported memory types, data rate (speed), and number of DRAM modules vary depending on the CPU and memory configuration.

Graphics
1 x HDMI™ port
2 x USB4® (40Gbps) ports support USB Type-C® display outputs
Supports max. 4K@60Hz (HDMI 2.1 & DisplayPort 1.4a)

* Graphics specifications may vary between CPU types.

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

Expansion Slots

1 x PCIe 5.0 x16 slots (supports x16 mode)

1 x PCIe 4.0 x16 slot (supports x4 mode)

Storage

Total supports 5 x M.2 slots and 4 x SATA 6Gb/s ports

M.2_1, M.2_2, M.2_3 support PCIe 5.0 x4 mode

M.2_4, M.2_5 support PCIe 4.0 x4 mode

AMD RAIDXpert2 Technology supports both PCIe and SATA RAID 0/1/5/10.

Ethernet

1 x Realtek 5Gb Ethernet

ASUS LANGuard

Wireless & Bluetooth

Wi-Fi 7 (802.11be)

2x2 Wi-Fi 7, supports 2.4/5/6GHz frequency bands, 320MHz bandwidth, up to 6.5Gbps transfer rate

Bluetooth® v5.4

* Wi-Fi 7 requires Windows 11 24H2 or later for full functions. Older versions and Windows 10 only support Wi-Fi 6E.

USB

Rear USB (Total 13 ports)

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

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

10 x USB 10Gbps ports (9 x Type-A + 1 x USB Type-C®)

Front USB (Total 11 ports)

1 x USB 20Gbps connector (USB Type-C®)

2 x USB 5Gbps headers (supports 4 additional USB ports)

3 x USB 2.0 headers (supports 6 additional USB ports)

Audio

ROG SupremeFX 7.1 Surround Sound High Definition Audio CODEC ALC4080

- Impedance sense for front and rear headphone outputs

- High quality 120 dB SNR stereo playback output

- Gold-plated audio jacks

- Optical S/PDIF out port

* The rear panel does not support spatial audio. For spatial audio, use the front panel or a USB interface.

Back Panel I/O Ports

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

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

10 x USB 10Gbps ports (9 x Type-A + 1 x USB Type-C®)

1 x HDMI™ port

1 x Wi-Fi Module

1 x Realtek 5Gb Ethernet

2 x Gold-plated audio jacks

1 x Optical S/PDIF out port

1 x BIOS FlashBack™ button

1 x Clear CMOS 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

- 5 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:

- 5 x M.2 slots (Key M)

- 4 x SATA 6Gb/s ports

USB:

- 1 x USB 20Gbps connector (USB Type-C®)

- 2 x USB 5Gbps headers (supports 4 additional USB ports)

- 3 x USB 2.0 headers (supports 6 additional USB ports)

Special Features

Extreme Engine Digi+

ASUS Q-Design (M.2 Q-Latch, M.2 Q-Release, PCIe Slot Q-Release Slim, Q-Antenna)

ASUS Thermal Solution (M.2 heatsinks, VRM heatsink design)

Software Feature

ROG Exclusive Software: ROG CPU-Z, Dolby Atmos

ASUS Exclusive Software: Armoury Crate, AIDA64 Extreme (60 days trial), Aura Creator, Fan Xpert 4 (AI Cooling II)

BIOS

256 Mb Flash ROM, UEFI AMI BIOS

Accessories 2 x SATA 6Gb/s cables

1 x Thermal pad for M.2 22110

1 x ASUS Wi-Fi moving antennas

1 x M.2 Q-Latch package

1 x ROG key chain

1 x Quick start guide

Operating System

Windows® 11, Windows® 10 64-bit

Form Factor

ATX Form Factor: 12 inch x 9.6 inch (30.5 cm x 24.4 cm)