

## PRIME X670E-PRO WIFI

### MB ASUS X670 AMD S-AM5 7A GEN/4X DDR5 5000/DP/HDMI/M.2/9X USB3.2/USB-C/WIFI 6/BLUETOOTH/ATX/GAMA ALTA

#### CPU

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

\* Refer to [www.asus.com](http://www.asus.com) for CPU support list.

#### Chipset

AMD X670

#### Memory

4 x DIMM, Max. 128GB, DDR5 6400+(OC)/ 6200(OC)/ 6000(OC)/ 5800(OC)/ 5600(OC)/ 5400(OC)/ 5200/ 5000/ 4800 ECC & 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 module vary depending on the CPU and memory configuration, for more information refer to [www.asus.com](http://www.asus.com) for memory support list.

\*\* Non-ECC, Un-buffered DDR5 Memroy supports On-Die ECC function.

#### Graphics

1 x DisplayPort\*\*

1 x HDMI® port\*\*\*

\* Graphics specifications may vary between CPU types.

\*\* Supports max. 8K@60Hz as specified in DisplayPort 1.4.

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

#### Expansion Slots

AMD Ryzen™ 7000 Series Desktop Processors\*

-1 x PCIe 5.0 x16 slot

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

-1 x PCIe 4.0 x4 slots

\* Please check PCIe bifurcation table at <https://www.asus.com/support/FAQ/1037507/>.

#### Storage

Total supports 4 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\_3 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)

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M.2\_2 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 3.0 x4 & SATA modes)\*\*

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

4 x SATA 6Gb/s ports

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

\*\* M.2\_2 slot shares bandwidth with SATA6G\_1&2. When M.2\_2 runs at PCIe x4 mode, SATA6G\_1&2 will be disabled.

#### Ethernet

1 x Realtek 2.5Gb Ethernet

ASUS LANGuard

## Wireless & Bluetooth

### Wi-Fi 6E

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

Supports 2.4/5/6GHz frequency band\*

### Bluetooth v5.2

\* Wi-Fi 6E 6GHz regulatory may vary between countries.

## USB

### Rear USB (Total 10 ports)

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

4 x USB 3.2 Gen 2 ports (3 x Type-A + 1 x USB Type-C®)

5 x USB 3.2 Gen 1 ports (4 x Type-A + 1 x USB Type-C®)

### Front USB (Total 9 ports)

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

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

3 x USB 2.0 headers support additional 6 USB 2.0 ports

## Audio

### Realtek S1220A 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

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

- 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

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

4 x USB 3.2 Gen 2 ports (3 x Type-A, 1 x USB Type-C®)

5 x USB 3.2 Gen 1 ports (4 x Type-A, 1 x USB Type-C®)

1 x DisplayPort

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 Power connectors

### Storage related

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

#### USB

1 x USB 3.2 Gen 2 connector (supports USB Type-C®)  
1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports  
3 x USB 2.0 headers support additional 6 USB 2.0 ports

#### Miscellaneous

2 x Addressable Gen 2 headers  
1 x AURA RGB header  
1 x Clear CMOS button  
1 x COM Port header  
1 x CPU Over Voltage jumper  
1 x Front Panel Audio header (AAFP)  
1 x Power button  
1 x SPI TPM header (14-1pin)  
1 x 20-3 pin System Panel header with Chassis intrude function  
1 x Thermal Sensor header  
1 x Thunderbolt™ header

#### Special Features

##### ASUS 5X PROTECTION III

- DIGI+ VRM (- Digital power design with DrMOS)
- ESD Guards
- LANGuard
- Overvoltage Protection
- Safeslot Core+
- Stainless-Steel Back I/O

##### ASUS Q-Design

- M.2 Q-Latch
- PCIe Slot Q-Release
- Q-Connector
- 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
- Clear CMOS button
- ProCool
- Pre-mounted I/O shield
- SafeSlot
- SafeDIMM

##### AURA Sync

- AURA RGB header
- Addressable Gen 2 headers

##### Software Features

##### ASUS Exclusive Software

##### Armoury Crate

- AURA Sync

- Fan Xpert 4 (with AI Cooling II)
  - Power Saving
  - Two-Way AI Noise Cancellation
- AI Suite 3
- Easy Optimization
  - TPU
  - DIGI+ VRM
  - Turbo app
  - PC Cleaner
- ASUS CPU-Z  
DTS:X® Ultra  
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
- FlexKey

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 Wi-Fi moving antenna

2 x Rubber packages for M.2

2 x Screw packages for M.2 SSD

1 x Q-connector

##### 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 )