

# ASUS Prime X670-P - motherboard - ATX - Socket AM5 - AMD X670



27-05-2024

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|------------------------|---------------------------------------------------------------|
| SKU                    | 90MB1BU0-M0EAY0                                               |
| Product Description:   | ASUS Prime X670-P - motherboard - ATX - Socket AM5 - AMD X670 |
| Product Type:          | Motherboard - ATX                                             |
| Chipset Type:          | AMD X670                                                      |
| Processor Socket:      | 1 x Socket AM5                                                |
| Compatible Processors: | Ryzen (supports Ryzen 7000 Series)                            |
| Max RAM Size:          | 192 GB                                                        |
| RAM Supported:         | 4 DIMM slots - DDR5, non-ECC, on-die ECC, unbuffered          |

## General

|                        |                                    |
|------------------------|------------------------------------|
| Product Type:          | Motherboard - ATX                  |
| Chipset Type:          | AMD X670                           |
| Processor Socket:      | Socket AM5                         |
| Max Processors Qty:    | 1                                  |
| Compatible Processors: | Ryzen (supports Ryzen 7000 Series) |

## Supported RAM

|                                |                                                                                                                                    |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Max Size:                      | 192 GB                                                                                                                             |
| Technology:                    | DDR5                                                                                                                               |
| Bus Clock:                     | 5400 MHz (O.C.), 5600 MHz (O.C.), 5800 MHz (O.C.), 6000 MHz (O.C.), 4800 MHz, 6200 MHz (O.C.), 6400 MHz (O.C.), 5200 MHz, 5000 MHz |
| Supported RAM Integrity Check: | Non-ECC, on-die ECC                                                                                                                |
| Registered or Buffered:        | Unbuffered                                                                                                                         |
| Features:                      | Dual channel memory architecture, AMD EXPO technology                                                                              |

## Audio

## Miscellaneous

|                       |                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Included Accessories: | IO shield, 1 x M.2 rubber package, 2 x M.2 screw package                                                                        |
| Cables Included:      | 2 x Serial ATA cable                                                                                                            |
| Software Included:    | ASUS CPU-Z, ASUS AI Suite III, PC Cleaner, WinRAR, Norton AntiVirus (Trial), ASUS AURA Creator, Armoury Crate, ASUS Fan Xpert 4 |
| Compliant Standards:  | VCCI Class B ITE, JATE, WEEE, KC, FCC Part 15 Class B, DisplayPort 1.4, EU RoHS, UKCA, EU REACH                                 |
| Width:                | 30.5 cm                                                                                                                         |
| Depth:                | 24.4 cm                                                                                                                         |

## Features

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| BIOS Type:       | AMI                            |
| BIOS Features:   | UEFI BIOS, ASUS EZ Flash 3     |
| Sleep / Wake Up: | Wake on LAN (WOL), wake on PME |

Audio

|                      |                       |
|----------------------|-----------------------|
| Type:                | HD Audio (8-channel)  |
| Compliant Standards: | High Definition Audio |

LAN

|                     |                      |
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| Network Interfaces: | 2.5 Gigabit Ethernet |
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Expansion / Connectivity

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| Expansion Slots: | 1 x CPU ; 4 x DIMM 288-pin ; 1 x PCIe 4.0 x16 ; 2 x PCIe 4.0 x16 (x4 mode) ; 1 x PCIe 3.0 x1 ; 2 x M.2 socket (2242/2260/2280 M.2 Key M slot) ; 1 x M.2 socket (2242/2260/2280/22110 M.2 Key M slot) ; 1 x M.2 socket (Key E) |
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| Storage Interfaces: | SATA-600 -connectors: 6 x 7pin Serial ATA - RAID 0 / RAID 1 / RAID 10 ; PCIe 4.0 - connectors: 2 x M.2 - RAID 0 / RAID 1 / RAID 10 ; PCIe 5.0 -connectors: 1 x M.2 - RAID 0 / RAID 1 / RAID 10 |
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|             |                                                                                                                                                                                                                                                               |
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| Interfaces: | 1 x HDMI ; 1 x DisplayPort ; 1 x USB-C 3.2 Gen2x2 ; 3 x USB 3.2 Gen 2 ; 4 x USB 3.2 Gen 1 ; 2 x USB 2.0 ; 1 x LAN (2.5Gigabit Ethernet) ; 1 x audio line-in - mini-jack ; 1 x microphone - mini-jack ; 1 x audio line-out - mini-jack ; PS/2 keyboard / mouse |
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|                      |                                                                                                                                                                                                    |
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| Internal Interfaces: | 1 x USB-C 3.2 Gen 1 - header ; 4 x USB 3.2 Gen 1 - header ; 4 x USB 2.0 - header ; 1 x serial - header ; 1 x audio - header ; 1 x SPDIF out - header ; 1 x SPI - header ; 1 x Thunderbolt - header |
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| Power Connectors: | 4-pin ATX12V connector, 24-pin main power connector, 8-pin ATX12V connector |
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Features

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| Hardware Features: | Jack retasking, ASUS Q-Design, ESD Guards, ASUS TurboV EVO, Stack Cool 3+, Q-DIMM, ASUS EZ DIY, Q-Slot, CrashFree BIOS 3, audio jack detect technology, ASUS DIGI+ VRM, Clear CMOS Button, ASUS Stainless Steel Back I/O, LANGuard, 6 Layer PCB, overvoltage protection, ASUS 5X Protection III, M.2 heatsink, ASUS ProCool, Water Pump Header, ASUS Aura Sync, ASUS OptiMem II, ASUS SafeSlot Core+, 12+2 DrMOS power stages, DIY Friendly Design, M.2 Q-Latch, Q-LED Core, VRM heatsink design, BIOS FlashBack button, BIOS FlashBack LED, 60A Power Stage |
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