ASUS TUF GAMING X670E-PLUS AMD X670 Socket AM5 ATX

Brand : ASUS

Product code: 90MB1BJ0-M0EAY0

Product name : TUF GAMING X670E-PLUS

TUF GAMING X670E-PLUS Mainboard Sockel AMD AM5 (Ryzen 7000, ATX, PCIe 5.0, DDR5-Speicher, 4x M.2, USB 3.2 Gen 2x2 Typ-C, Aura Sync)

ASUS TUF GAMING X670E-PLUS. Processor manufacturer: AMD, Processor socket: Socket AM5, Supported processor sockets: Socket AM5. Supported memory types: DDR5-SDRAM, Maximum internal memory: 128 GB, Memory slots type: DIMM. Supported storage drive interfaces: M.2, SATA III, Supported storage drive types: HDD & SSD, RAID levels: 0, 1, 10. Maximum resolution: 7680 x 4320 pixels. Ethernet interface type: 2.5 Gigabit Ethernet





| ProcessorAMDDisplayPorts quantifyI I< | | | | |
|--|---|----------------------|---------------------------|---------------------------------------|
| Processor socket * Socket AMS Headphone outputs 1 Supported processor sockets Socket AMS Microphone in ✓ Supported processor sockets Socket AMS Microphone in ✓ Supported memory types* DDRS-SDRAM Ethernet LAN ✓ Number of memory slots type DIM Microphone in terface type ✓ Memory slots type DIM Kenner interface type ✓ Memory slots type DIM Kenner interface type ✓ Supported memory slots '4 Microphone in terface type ✓ ✓ Supported memory clock speed Mitz Molterboard chipset * AMD X670 Radio chip Realtek S1220A Molterboard chipset * AMD X670 Maximum internal memory 128 GB Component for * PC Supported storage drive types HDD & SSD Molterboard chipset family * AMD Supported storage drive interface type I.1 Microphone in * ATX Supported storage drive interface type Not supported Molterboard chipset family * Microphone in * Supported storage drive interface type Not supported | Processor | | Rear panel I/O ports | |
| Supported memory types* DDR3-SDRAM Ethernet LAN ✓ Number of memory slots * 4 Ethernet LAN ✓ Memory slots type DIMI Ethernet LAN ✓ Memory slots type Dual-channel Vi-Fi * X ECC ✓ Kennet LAN X Supported memory clock speeds Memory channels Molerboard chipset * AMD X670 Supported memory clock speeds Memory channels Addo ontput channels * 7.1 channels Supported memory clock speeds Molerboard form factor * ATX Maximum internal memory 128 GB Component for * PC Maximum internal memory ✓ Motherboard chipset family * AMD Supported storage drive types MDD & SSD Windows operating systems Windows 10 x64, Windows 11 x64 Supported storage drive interfaces * M.2, SATA III SATA Number of M.2 (Gen 4.x) slots 1 Supported storage drive interfaces * M.2, SATA III SATA Supported Moder thipset family * AMD Supported storage drive interfaces * M.2, SATA | Processor socket * | Socket AM5 | Headphone outputs | 1 |
| Number of memory slots* 4 Enternet interface type 2.5 Gigabit Ethernet Memory channels Dual-cannel Wi-Fi* X ECC Y Features Montory channels X Supported memory clock speed Montory clock speed Mon | Memory | | Network | |
| Non-ECC ✓ Partners Supported memory clock speed (max) 4800,500,5200,5400,5600,5800,600,6200,640 Motherboard chipset* AMD X670 Supported memory clock speed (max) 6400 MHz Audio output channels* 7.1 channels Maximum internal memory* 128 GB Component for * PC Muberboard chipset family* AMD X670 Motherboard chipset family* AMD X670 Supported memory ✓ Motherboard chipset family* AMD Supported storage drive types HDD & SSD Power source type ATX Supported storage drive interfuces * M.2, SATA III Windows operating systems supported Windows 10 x64, Windows 11 x64 Supported storage drive interfuces * M.2, SATA III Power source type ATX RAID support ✓ Pour source type ATX RAID support ✓ Pour source type Interfuce RAID support ✓ POL Express x4 slots 1 RAID support Featore POL Express x16 (Gen 4.x) slots 1 Ray Featore Not supported Not supported Motherboard chipset % Support Featore POL Express x16 (Gen 4.x) slots 1 Support Featore Noneer of M.2 (M) slots 4 < | Number of memory slots * Memory slots type | 4 DIMM | Ethernet interface type | 2.5 Gigabit Ethernet |
| Supported memory clock speed (max) 4800,5000,5200,5400,5600,5800,6000,6200,640 MHz Motherboard chipset * AMD X670 Supported memory clock speed (max) 6400 MHz Audio chip Realtek S1220A Maximum internal memory * 128 GB Component for * PC Unbuffered memory * 128 GB Motherboard chipset family * AMD Storage controllers Motherboard chipset family * AMD Supported storage drive types MD2 & SSD Motherboard chipset family * AMD Supported storage drive types MD2 & SSD Windows operating systems supported Windows 10 x64, Windows 11 x64 AID levels 0, 1, 10 Expansion slots 1 Parallel processing technology support * Not supported PCI Express x4 slots PCI Express x16 (Gen 4.x) slots 1 Naximum resolution 7680 x 4320 pixels Number of M.2 (M) slots 4 USB 2.0 connectors * 3 BIOS 256 Mbit USB 3.2 Gen 1 (3.1 Gen 1) connectors * 1 BIOS memory size 256 Mbit USB 3.2 Gen 1 (3.1 Gen 2) connectors * 1 Package width 338 mm USB 3.2 Gen 1 (3.1 Gen 1) connectors * 1 Package elight 273 mm USB 3.2 Gen 1 (3.1 Gen 2) connectors * 1 Package width 338 mm Numbe | | 4 | Features | |
| (max)bdub inizitAdult output trainings in a constraint of the second seco | | | • | |
| Maximum memory Ido Gale Motherboard form factor * ATX Storage controllers Motherboard chipset family * AMD Supported storage drive types HDD & SSD Power source type ATX Supported storage drive interfaces * M.2, SATA III Power source type ATX RAID support Image: supported storage drive interfaces * M.2, SATA III Windows operating systems supported Windows 10 x64, Windows 11 x64 RAID levels 0,1,10 Expansion slots 1 Graphics PCI Express x4 slots 1 Parallel processing technology support * Not supported PCI Express x16 (Gen 4.x) slots 1 Maximum resolution 7680 x 4320 pixels PCI Express x16 (Gen 5.x) slots 1 Internal I/O Image: support size state s | (max) | | • | |
| Storage controllersHDD & SSDPower source typeATXSupported storage drive interfaces *M.2, SATA IIIWindows operating systems supportedWindows 10 x64, Windows 11 x64RAID supportExpansion slotsWindows 10 x64, Windows 11 x64RAID levels0, 1, 10FCI Express x4 slots1GraphicsPCI Express x4 slots1Parallel processing technology support *Not supportedPCI Express x16 (Gen 4.x) slots1Maximum resolution7680 x 4320 pixelsNumber of M.2 (M) slots4Internal I/OBIOSUEFI AMISlotsUSB 2.0 connectors *3BIOS memory size256 MbitUSB 3.2 Gen 1 (3.1 Gen 1) connectors *1Packaging data256 MbitUSB 3.2 Gen 2 (3.1 Gen 2) connectors *1Package width338 mmNumber of SATA III connectors *4Package depth273 mmNumber of SATA III connectors *4Package weinht235 kg | • | | • | ATX |
| Supported storage drive typesHDD & SSDWindows operating systemsWindows 10 x64, Windows 11 x64Supported storage drive interfaces * M.2, SATA IIIWindows operating systemsWindows 10 x64, Windows 11 x64RAID support0, 1, 10 Expansion slots IGraphics0, 1, 10PCI Express x4 slots1Parallel processing technology support *Not supportedPCI Express x16 (Gen 4.x) slots1Maximum resolution7680 x 4320 pixelsPCI Express x16 (Gen 5.x) slots1Internal I/O10BIOS1USB 2.0 connectors *3BIOS type *UEFI AMIUSB 3.2 Gen 1 (3.1 Gen 1) connectors *1Package drivth338 mmUSB 3.2 Gen 2 (3.1 Gen 2) connectors *1Package drivth338 mmNumber of SATA III connectors *4Package depth273 mmNumber of SATA III connectors *4Package weight2,35 kn | Storage controllers | | | |
| RAID levels0, 1, 10Expansion slotsGraphicsPCI Express x4 slots PCI Express x16 (Gen 4.x) slots1Parallel processing technology support*Not supportedPCI Express x16 (Gen 4.x) slots1Maximum resolution7680 x 4320 pixelsNumber of M.2 (M) slots4Internal I/OBIOSBIOS type *UEFI AMIUSB 2.0 connectors *3BIOS memory size256 MbitUSB 3.2 Gen 1 (3.1 Gen 1) connectors *1Package width338 mmUSB 3.2 Gen 2 (3.1 Gen 2) connectors *1Package depth273 mmNumber of SATA III connectors4Package height68 mmFront panel audio connectorIPackage weinbt2 35 kg | Supported storage drive interf | aces * M.2, SATA III | Windows operating systems | ATX Windows 10 x64, Windows 11 x64 |
| GraphicsPCI Express x4 slots1Parallel processing technology support*Not supportedPCI Express x16 (Gen 4.x) slots1Maximum resolution7680 x 4320 pixelsPCI Express x16 (Gen 5.x) slots1Internal I/OBIOSUEFI AMIUSB 2.0 connectors *3BIOS type *UEFI AMIUSB 3.2 Gen 1 (3.1 Gen 1) connectors *1Packaging data256 MbitUSB 3.2 Gen 2 (3.1 Gen 2) connectors *1Package width338 mmNumber of SATA III connectors *4Package depth273 mmNumber of SATA III connectors4Package height68 mmFront panel audio connectorIPackage weinpt2 35 kg | •• | | Expansion slots | |
| Parallel processing technology support *Not supportedPCI Express x16 (Gen 5.x) slots1Maximum resolution7680 x 4320 pixelsNumber of M.2 (M) slots4Internal I/OBIOSUSB 2.0 connectors *3BIOS type *UEFI AMIUSB 3.2 Gen 1 (3.1 Gen 1) connectors *1BIOS memory size256 MbitUSB 3.2 Gen 2 (3.1 Gen 2) connectors *1Package width338 mmNumber of SATA III connectors *4Package depth273 mmFront panel audio connector✓Package weight235 kg | | 0, _, _0 | · | |
| Maximum resolution7680 x 4320 pixelsNumber of M.2 (M) slots4Internal I/OBIOSUSB 2.0 connectors *3BIOS type *UEFI AMIUSB 3.2 Gen 1 (3.1 Gen 1) connectors *1BIOS memory size256 MbitUSB 3.2 Gen 2 (3.1 Gen 2) connectors *1Package width338 mmNumber of SATA III connectors *4Package depth273 mmFront panel audio connector✓Package weight68 mmFront panel audio connector✓Package weight235 kg | 1 5 57 | Not supported | • • • | 1 |
| Internal I/O BIOS type * UEFI AMI USB 2.0 connectors * 3 BIOS memory size 256 Mbit USB 3.2 Gen 1 (3.1 Gen 1) connectors * 1 Packaging data 256 Mbit USB 3.2 Gen 2 (3.1 Gen 2) connectors * 1 Package width 338 mm Number of SATA III connectors * 4 Package depth 273 mm Front panel audio connector ✓ Package weight 68 mm | •• | 7680 x 4320 pixels | Number of M.2 (M) slots | 4 |
| USB 2.0 connectors * 3 BIOS memory size 256 Mbit USB 3.2 Gen 1 (3.1 Gen 1) connectors * 1 Packaging data 256 Mbit USB 3.2 Gen 2 (3.1 Gen 2) connectors * 1 Package width 338 mm Number of SATA III connectors * 4 Package depth 273 mm Front panel audio connector ✓ Package weight 68 mm | Internal I/O | | BIOS | |
| connectors * I Packaging data USB 3.2 Gen 2 (3.1 Gen 2) connectors * 1 Package width 338 mm Number of SATA III connectors * 4 Package depth 273 mm Front panel audio connector ✓ Package weight 68 mm | | | | |
| connectors * I Package width 538 mm Number of SATA III connectors * 4 Package depth 273 mm Front panel audio connector Image: Application of the second s | | 1 | Packaging data | |
| Number of SATA III connectors * 4 Package height 68 mm Front panel audio connector Image: Additional state of the st | connectors * | | 5 | |
| Front panel connector | Front panel audio connector | 5* 4 ✓ | Package height | 68 mm |
| | Front panel connector | 4 | r dekage weight | 2.00 kg |

| Internal I/O | | Weight & dimensions | |
|--|-----|---------------------|--|
| ATX Power connector (24-pin) | √ | Width | 305 mm |
| CPU fan connector | ✓ | Depth | 244 mm |
| Number of chassis fan connectors | 4 | Packaging content | |
| Peripheral (Molex) power connectors (4-pin) | 1 | Cables included | SATA |
| EPS power connector (8-pin) | 4 | User guide | 4 |
| Number of COM connectors | 1 | Drivers included | 4 |
| Thunderbolt headers | 1 | Other features | |
| 12V power connector | ✓ | | TUF PROTECTION - DIGI+ VRM (- |
| RGB LED pin header | ✓ | | Digital power design with DrMOS |
| Rear panel I/O ports | | | ESD Guards - LANGuard - Overvoltage Protection - Safeslot |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 5 | | Core+ - Stainless-Steel Back I/O ASUS Q-Design - M.2 Q-Latch - Q |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 3 | | DIMM - Q-LED (CPU [red], DRAM [yellow], VGA [white], Boot Devic [yellow green]) - Q-Slot ASUS |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity * | 1 | | Thermal Solution - M.2 heatsink VRM heatsink design ASUS EZ DI |
| USB 3.2 Gen 2x2 Type-C ports quantity | 1 | | BIOS FlashBack™ button - BIOS FlashBack™ LED - Clear CMOS |
| Ethernet LAN (RJ-45) ports * | 1 | | header - ProCool - Pre-mounted I shield - SafeSlot - SafeDIMM AUR |
| HDMI ports quantity * | 1 | | Sync - AURA RGB header - |
| HDMI version | 2.1 | Special features | Addressable Gen 2 headers TUF PROTECTION - DIGI+ VRM (- Digi power design with DrMOS) - ESD Guards - LANGuard - Overvoltage |

Packaging content

Protection - Safeslot - Stainless-Steel Back I/O 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 -Clear CMOS header - ProCool - Premounted I/O shield - SafeSlot -SafeDIMM AURA Sync - AURA RGB header - Addressable Gen 2 headers Cables 2 x SATA 6Gb/s cables Miscellaneous 2 x Rubber packages

for M.2 2 x Screw packages for M.2 SSD Documentation 1 x TUF certification card 1 x User guide

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