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

Publication date: 18-JUN-2024. Prints or copies of Information are only valid on the printed Publication date



4711081905608

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.