## ASUS TUF GAMING X870-PLUS WIFI AMD X870 Socket AM5 ATX

**Brand**: ASUS **Product code**: 90MB1IU0-M0EAY0

Product name: TUF GAMING X870-PLUS WIFI

AMD AM5, AMD X870, 4 x DIMM slots, max. 192GB, DDR5, 1 x Realtek 2.5Gb Ethernet, 2x2 Wi-Fi 7 (802.11be), 256 Mb Flash ROM, UEFI AMI BIOS, ATX

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## **TUF GAMING X870-PLUS WIFI**

ASUS TUF GAMING X870-PLUS WIFI takes all the essential elements of the latest AMD Ryzen™ processors and combines them with game-ready features and proven durability. Engineered with military-grade components, an upgraded power solution and a comprehensive cooling system, this motherboard goes beyond expectations with rock-solid and stable performance for marathon gaming. TUF GAMING motherboards also undergo rigorous endurance testing to ensure that they can handle conditions where others may fail. This platform delivers the power and connectivity that advanced AI PC applications demand.





Processor         Internal I/O         Internal I/O           Processor soncket*         Socket AM5         12 Vp ower connector         4           Compatible processor series**         AMD Ryzen 7 7th Gen, AMD Ryzen 9 th Gen, AMD Ryzen 9 th Gen, AMD Ryzen 9 th Gen Pyth Gen         VSB 2.0 ports quantity*         1           Memory         USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity*         4           Supported memory types*         DDR5-SDRAM         USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity*         3           Memory slots type         DIMM         Ethernet LAN (R)-45 ports*         1           Memory channels         DUal-channel         HDMI ports quantity*         1           ECC         4         Microphone in Wicrophone in Wi				
Processor socket * Socket AM5 AMD Ryzen 7 7th Gen, AMD Ryzen 9 7th Gen, AMD Ryzen 9 7th Gen, AMD Ryzen 9 8th Gen, AMD Ryzen 11 8th Gen, AMD Ryzen	Processor		Internal I/O	
Compatible processor series * AMD Ryzen 9 7th Gen, AMD Ryzen 9 9th Gen	Processor manufacturer *	AMD	Number of COM connectors	1
Standard S	Processor socket *	Socket AM5	12V power connector	✓
Compatible processor series* AMD Ryzen 9 8th Gen, AMD Ryzen 9 9th Gen USB 3.2 Gen 1 3.1 Gen 1) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * 1 USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * 1 USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * 1 USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * 1 USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * 1 USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 1 (3.1 Gen 1) Usb 3.2 Gen 1 (			Rear panel I/O ports	
Memory	Compatible processor series *	AMD Ryzen 9 8th Gen, AMD Ryzen 9	USB 2.0 ports quantity *	1
Supported memory types* DDRS-SDRAM ports quantity* 2  Memory slots type DIMM Ethernet LAN (RJ-45) ports quantity 2  Memory channels Dual-channel HDMI ports quantity* 1  ECC / Microphone in Just Type-A, USB Type-A, USB Type-A, USB Type-C  Supported memory clock speed (max) Wi-Fi **  Unbuffered memory **  Von-ECC V USB connector type USB Type-A, USB Type-C  Supported memory v V USB connector type USB Type-A, USB Type-C  Wi-Fi **  Supported memory V V Ethernet LAN V VI-Fi **  Supported storage drive types HDD & SSD Top Wi-Fi standard Wi-Fi 7 (802.11be)  Supported storage drive interfaces ** M.2, SATA III Wi-Fi standards Wi-Fi 7 (802.11be)  Number of HDDs supported 2  Number of storage drives supported 6  RAID support Storage drives supported 6  RAID support Storage drives supported 6  RAID support Storage drives supported 6  RAID levels O, 1, 5, 10  Features  Graphics AMD X870  Audio chip Realtek ALC1220P  Parallel processing technology Supported Audio output channels **  Product colour Black  Component for **  Product colour Black  On-board graphics card ATX  USB 2.0 connectors 2  Motherboard chipset family AMD  USB 3.2 Gen 1 (3.1 Gen 1)  USB 3.2 Gen 1 (3.1 Gen 1)  USB 3.2 Gen 1 (3.1 Gen 1)  USB 3.2 Gen 2 (3.1 Gen 2) Type-A  USB 2.9 connectors 2  USB Type-A, USB Type-C  USB Type-A, USB Type-C  USB Cantenet LAN  LEthernet LAN  LEthernet LAN  V.  USB Cantenet LAN  V.  VISB Cantenet LAN  VISB Cantenet Cantenet LAN  VISB Canten		9th Gen		4
Supported memory types* DDRS-SDRAM ports quantity* 3  Number of memory slots* 4 USBA Gen 3x2 ports quantity 2  Memory slots type DIMM Ethernet LAN (RJ-45) ports* 1  Memory channels Dual-channel HDMI ports quantity* 1  ECC / Microphone in / USB connector type USB Type-A, USB Type-C  Supported memory clock speed (max) 8000 MHz Network  Maximum internal memory* 192 GB Ethernet LAN / Liberate type USB Type-A, USB Type-C  Storage controllers / Wi-Fi* / Liberate type USB Type-A, USB Type-C  Supported storage drive types HDD & SSD Top Wi-Fi standard Wi-Fi 7 (802.11be)  Number of HDDs supported 2 Bluetooth / Wi-Fi 7 (802.11be)  Number of storage drives supported 6 Bluetooth / Wi-Fi 802.11be)  Number of storage drives supported 6 Bluetooth / RAID support  RAID levels 0, 1, 5, 10 Motherboard chipset * AMD X870  Graphics Audio chip Realtek ALC1220P  Parallel processing technology support Audio output channels 7, 1 channels  Product colour Black  On-board graphics card Vindows operating systems Windows 11  USB 3.2 Gen 1 (3.1 Gen 1) 1 Windows operating systems Windows 11	Memory		,	
Memory slots type DIMM Ethernet LAN (RJ-45) ports* 1 Memory channels Dual-channel HDMI ports quantity* 1 ECC Non-ECC V Microphone in V Microphone in V Memory clock speed (max) Maximum internal memory* 192 GB Unbuffered memory V Ethernet LAN Ethernet LAN Wi-Fi * Wi-Fi * V Supported storage drive types Storage controllers  Wi-Fi * Supported storage drive interfaces * M.2, SATA III Number of HDDs supported RAID support RAID levels  Graphics  Graphics  Features  Motherboard chipset * Audio cutput channels * Audio cutput channels * Audio cutput channels * Audio Output colour Black On-board graphics card  Vient in the colour Black On-board graphics card  Vient in the colour Black On-board graphics card  Vient in factor * Audio Motherboard form factor * Audio Motherboard from factor * Audio Motherboard chipset family * Audio Motherboard from factor * Audio Motherboard from factor * Audio Motherboard chipset family * Audio Motherboard from factor * Audio Motherboard chipset family * Audio Motherboard from factor * Audio Motherboard chipset family * Audio Motherboard from factor * Audio Motherboard chipset family * Audio Motherboard from factor * Audio Motherboard chipset family * Audio Motherboard from factor * Audio Motherboard chipset family * Audio Motherboard from factor * Audio Motherboard from factor * Audio Motherboard chipset family * Audio Motherboard from factor * Audio Motherboard from factor * Audio Motherboard chipset family * Audio Motherboard from factor * Audio Motherboard from factor * Audio Microphone in  Component for * Audio Microphone in  Charles  Audio Motherboard chipset family * Audio Motherboard c	Supported memory types *	DDR5-SDRAM	` , , , , ,	3
Memory channels  Dual-channel  HDMI ports quantity*  1  ECC  Microphone in  V  USB connector type  USB Type-A, USB Type-C  Supported memory clock speed (max)  Maximum internal memory*  192 GB  Ethernet LAN  Unbuffered memory  V  Ethernet interface type  Storage controllers  Supported storage drive types  HDD & SSD  Supported storage drive interfaces * M.2, SATA III  Number of HDDs supported  Number of storage drives supported  Aulio support  RAID support  RAID support  RAID levels  Graphics  Graphics  Motherboard chipset *  Audio chip  Realtek ALC1220P  Parallel processing technology support *  On-board graphics card  X  Motherboard form factor *  Motherboard form factor *  Product colour Component for *  Component for *  Motherboard chipset family  Motherboard chipset family	Number of memory slots *	4	USB4 Gen 3x2 ports quantity	2
ECC Microphone in Von-ECC USB Type-A, USB Type-C Supported memory clock speed (max) Network  Maximum internal memory 192 GB Ethernet LAN Vi-Fi *  Supported storage controllers M.2, SATA III Wi-Fi standard Wi-Fi 7 (802.11be) Supported storage drive types M.2, SATA III Wi-Fi standard Wi-Fi 7 (802.11be) Supported storage drives supported 2 Bluetooth Wi-Fi storage drives supported 6 Bluetooth version 5.4  RAID support RAID levels 0, 1, 5, 10  Graphics  Parallel processing technology supported Motherboard chipset * Audio chip Realtek ALC1220P  Parallel processing technology supported Motherboard form factor * Component for * Component	, ,,		Ethernet LAN (RJ-45) ports *	1
Non-ECC Supported memory clock speed (max)  Maximum internal memory * 192 GB Ethernet LAN Unbuffered memory  Storage controllers  Supported storage drive types HDD & SSD Supported storage drive interfaces * M.2, SATA III Number of HDDs supported  Ali Supported  Supported  Supported storage drive interfaces * M.2, SATA III Number of HDDs supported  O, 1, 5, 10   Graphics  Graphics  On-board graphics card  Not supported  Not	•		HDMI ports quantity *	1
Supported memory clock speed (max)  Maximum internal memory* 192 GB  Unbuffered memory  Very Ethernet LAN  Supported storage drive types Supported storage drive interfaces* M.2, SATA III  Number of HDDs supported  RAID support  RAID levels  O, 1, 5, 10  Graphics  Parallel processing technology support*  On-board graphics card  Not supported  Not sup			Microphone in	✓
(max)     8000 MHz     Network       Maximum internal memory *     192 GB     Ethernet LAN     ✓       Unbuffered memory     Ethernet interface type     2.5 Gigabit Ethernet, Fast Ethernet Gigabit Ethernet Gigabit Ethernet Gigabit Ethernet       Supported storage drive types     HDD & SSD     Top Wi-Fi standard     Wi-Fi 7 (802.11be)       Supported storage drive interfaces *     M.2, SATA III     Wi-Fi standards     Wi-Fi 7 (802.11be)       Number of HDDs supported     2     Bluetooth     ✓       Number of storage drives supported     6     Bluetooth     5.4       RAID support     ✓     Features       RAID levels     0, 1, 5, 10     Motherboard chipset *     AMD X870       Graphics     Motherboard chipset *     AMD X870       Parallel processing technology support *     Not supported     Audio output channels *     7.1 channels       On-board graphics card     X     Component for *     PC       Internal I/O     Motherboard chipset family *     AMD       USB 2.0 connectors *     2     Motherboard chipset family *     AMD       USB 3.2 Gen 1 (3.1 Gen 1)     Windows operating systems     Windows 11		<b>4</b>	USB connector type	USB Type-A, USB Type-C
Unbuffered memory  Storage controllers  Wi-Fi *  Supported storage drive types HDD & SSD Top Wi-Fi standard Wi-Fi 7 (802.11be)  Supported storage drive interfaces * M.2, SATA III Wi-Fi standards Wi-Fi 7 (802.11be)  Number of HDDs supported 2 Bluetooth Wi-Fi storage drives supported 6 Bluetooth Version 5.4  RAID support VRAID levels 0, 1, 5, 10  Graphics  Graphics  Parallel processing technology support*  On-board graphics card Not supported Audio output channels *  On-board graphics card Not support Audio output form factor *  Internal I/O  Internal I/O  Windows operating systems  Windows 11  Wi-Fi *  V  USB 2.0 connectors *  Wi-Fi *  Vi-Fi *  Vine (02.11be)  Vii-Fi *  Vii-Fi *		8000 MHz	Network	
Storage controllers  Wi-Fi *  Supported storage drive types HDD & SSD  Top Wi-Fi standard Wi-Fi 7 (802.11be)  Supported storage drive interfaces * M.2, SATA III  Number of HDDs supported 2  Bluetooth Wi-Fi standards Wi-Fi 7 (802.11be)  Number of storage drives supported 6  RAID support V  RAID levels 0, 1, 5, 10   Graphics Not supported Audio chip Realtek ALC1220P  Parallel processing technology support *  On-board graphics card Not supported Audio output channels *  Product colour Black  Component for *  Notherboard form factor *  Motherboard chipset family *  Motherboard chipset family *  Motherboard chipset family *  Motherboard chipset family *  Motherboard systems Windows 11  Windows operating systems  Windows 11	Maximum internal memory *	192 GB	Ethernet LAN	✓
Supported storage drive types HDD & SSD Top Wi-Fi standard Wi-Fi 7 (802.11be)  Supported storage drive interfaces * M.2, SATA III Wi-Fi standards Wi-Fi 7 (802.11be)  Number of HDDs supported 2 Bluetooth	,	✓	Ethernet interface type	2.5 Gigabit Ethernet, Fast Ethernet, Gigabit Ethernet
Supported storage drive interfaces * M.2, SATA III  Number of HDDs supported  2 Bluetooth  Number of storage drives supported 6 Bluetooth  RAID support  RAID levels  O, 1, 5, 10   Graphics  Parallel processing technology support*  On-board graphics card  Not supported  Not supported  Motherboard chipset * AMD X870  Audio output channels * 7.1 channels  Product colour  Component for * PC  Internal I/O  USB 2.0 connectors * 2  Motherboard chipset family * AMD  Windows operating systems  Winfi 7 (802.11be)  Wi-Fi standards  Wi-Fi 7 (802.11be)  Wi-Fi standards  Wi-Fi 7 (802.11be)  Wi-Fi standards  Wi-Fi 7 (802.11be)  Winfi 802.11be)  Winfi 802.11be)  Winfi 902.11be)  Winfi 902.11be  Winfi 902.11	Storage controllers		Wi-Fi *	<b>√</b>
Number of HDDs supported 2 Bluetooth    Number of storage drives supported 6 Bluetooth version 5.4  RAID support   RAID levels 0, 1, 5, 10    Graphics	, ,		Top Wi-Fi standard	Wi-Fi 7 (802.11be)
Number of storage drives supported 6  RAID support  RAID levels  O, 1, 5, 10   Graphics  Parallel processing technology support *  On-board graphics card  Internal I/O  INTERNAL IV  USB 2.0 connectors *  2  Bluetooth version  Motherboard chipset *  AMD X870  Audio chip  Realtek ALC1220P  Audio output channels *  Product colour  Component for *  Motherboard form factor *  ATX  Windows operating systems  Windows 11			Wi-Fi standards	Wi-Fi 7 (802.11be)
RAID support  RAID levels  O, 1, 5, 10  Features  Motherboard chipset * AMD X870  Audio chip Realtek ALC1220P  Parallel processing technology support * On-board graphics card  On-board graphics card  Internal I/O  INTERNAL I/O  USB 2.0 connectors * 2  Windows operating systems  Motherboard hipset * AMD X870  Audio chip Realtek ALC1220P  Product colour Colour  Component for * PC  Motherboard form factor * ATX  Windows operating systems  Windows 11			Bluetooth	✓
RAID levels  O, 1, 5, 10  Graphics  Motherboard chipset * AMD X870 Audio chip Realtek ALC1220P  Parallel processing technology support * On-board graphics card  On-board graphics card  Internal I/O  USB 2.0 connectors * 2  Windows operating systems  Motherboard chipset * AMD X870 Audio chip Realtek ALC1220P  Product colour Colour  Component for * PC  Motherboard form factor * ATX  Windows operating systems  Windows 11	•	6	Bluetooth version	5.4
Graphics  Motherboard chipset * AMD X870  Audio chip Realtek ALC1220P  Parallel processing technology support * On-board graphics card  On-board graphics card  Internal I/O  USB 2.0 connectors * 2  Motherboard chipset * AMD X870  Audio chip Realtek ALC1220P  7.1 channels  Product colour Component for * PC  Motherboard form factor * ATX  Motherboard chipset family * AMD  Windows operating systems  Windows 11	• •	0. 1. 5. 10	Features	
Parallel processing technology support *  On-board graphics card  Internal I/O  USB 2.0 connectors *  2  Audio chip  Audio output channels *  Product colour  Component for *  Motherboard form factor *  ATX  Windows operating systems  Windows 11		. , , . ,	Motherboard chipset *	AMD X870
Support * On-board graphics card  On-board graphics card  Not supported Product colour Component for * PC Internal I/O  USB 2.0 connectors *  2  Motherboard chipset family *  Motherboard systems Windows operating systems Windows 11	•		•	
On-board graphics card  Component for * PC  Internal I/O Motherboard form factor * ATX  USB 2.0 connectors * 2 Motherboard chipset family * AMD  USB 3.2 Gen 1 (3.1 Gen 1)  Windows operating systems Windows 11		Not supported	•	
Internal I/O Motherboard form factor * ATX  USB 2.0 connectors * 2 Motherboard chipset family * AMD  USB 3.2 Gen 1 (3.1 Gen 1) 1 Windows operating systems Windows 11	On-board graphics card	×		
USB 2.0 connectors * 2 Motherboard chipset family * AMD USB 3.2 Gen 1 (3.1 Gen 1) Windows operating systems Windows 11	Internal I/O		•	
USB 3.2 Gen 1 (3.1 Gen 1) Windows operating systems Windows 11		2		
	USB 3.2 Gen 1 (3.1 Gen 1)		Windows operating systems	

Internal I/O		Expansion slots	
USB 3.2 Gen 2x2 connectors  Number of SATA III connectors *	1 2	PCI Express x16 (Gen 4.x) slots Number of M.2 (M) slots	1 4
Front panel audio connector  ATX Power connector (24-pin)  CPU fan connector  Number of chassis fan connectors  EPS power connector (8-pin)	✓ ✓ ✓ 4	BIOS BIOS type * BIOS memory size	UEFI AMI 256 Mbit
		Weight & dimensions Width	305 mm
		Depth	244 mm



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