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ASUS TUF GAMING X570-PLUS (Wi-Fi)

ASUS TUF Gaming X570-Plus (Wi-Fi) Motherboard User Manual

Model: TUF GAMING X570-PLUS (Wi-Fi)

1. INTRODUCTION

The ASUS TUF Gaming X570-Plus (Wi-Fi) motherboard is engineered for robust performance and durability, supporting AMD Ryzen 2nd and 3rd generation AM4 processors. It features military-grade TUF components, AURA Sync lighting for personalization, and integrated dual M.2 slots, Gigabit LAN, and USB 3.2 Gen2 for high-speed connectivity. This manual provides detailed instructions for installation, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your motherboard.



Figure 1: ASUS TUF Gaming X570-Plus (Wi-Fi) Motherboard and Retail Box.

2. PRODUCT OVERVIEW

The TUF Gaming X570-Plus (Wi-Fi) motherboard is designed with a focus on stability and performance for gaming and demanding applications. Key features include:

- **AMD AM4 Socket:** Ready for 2nd and 3rd Gen AMD Ryzen processors, maximizing connectivity and speed with up to two M.2 Drives, USB 3.2 Gen2, and AMD StoreMI.
- **Enhanced Power Solution:** Features military-grade TUF components, ProCool socket, and Digi+ VRM for maximum durability and stable power delivery.
- **Comprehensive Cooling:** Equipped with an active PCH heatsink, VRM heatsink, M.2 heatsink, hybrid fan headers, and Fan Xpert for efficient thermal management.
- **Next-Gen Connectivity:** Includes dual PCIe 4.0 M.2 slots and USB 3.2 Gen 2 Type-A/Type-C ports for high-speed data transfer.
- **Gaming Networking:** Features exclusive Realtek L8200A Gigabit Ethernet, Intel 2x2 802.11ac Wi-Fi with MU-MIMO support, Bluetooth 5.0, and TUF LANGuard technology.

Extreme Power & Performance

Upgraded power solutions and next-gen connectivity

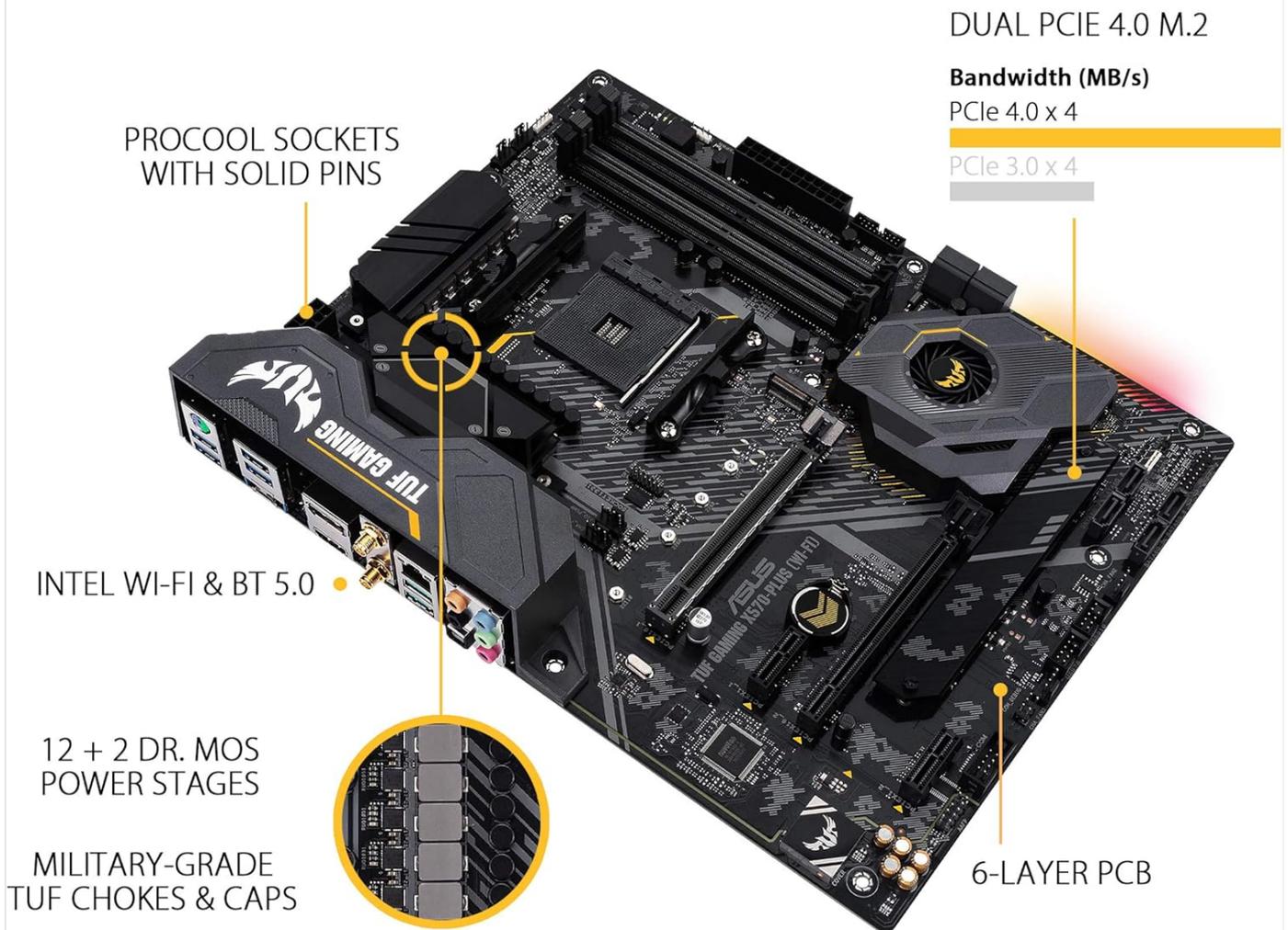


Figure 2: Extreme Power & Performance features, highlighting ProCool sockets, Intel Wi-Fi & BT 5.0, Dr. MOS power stages, and PCIe 4.0 M.2 bandwidth.

Comprehensive Cooling & Protection

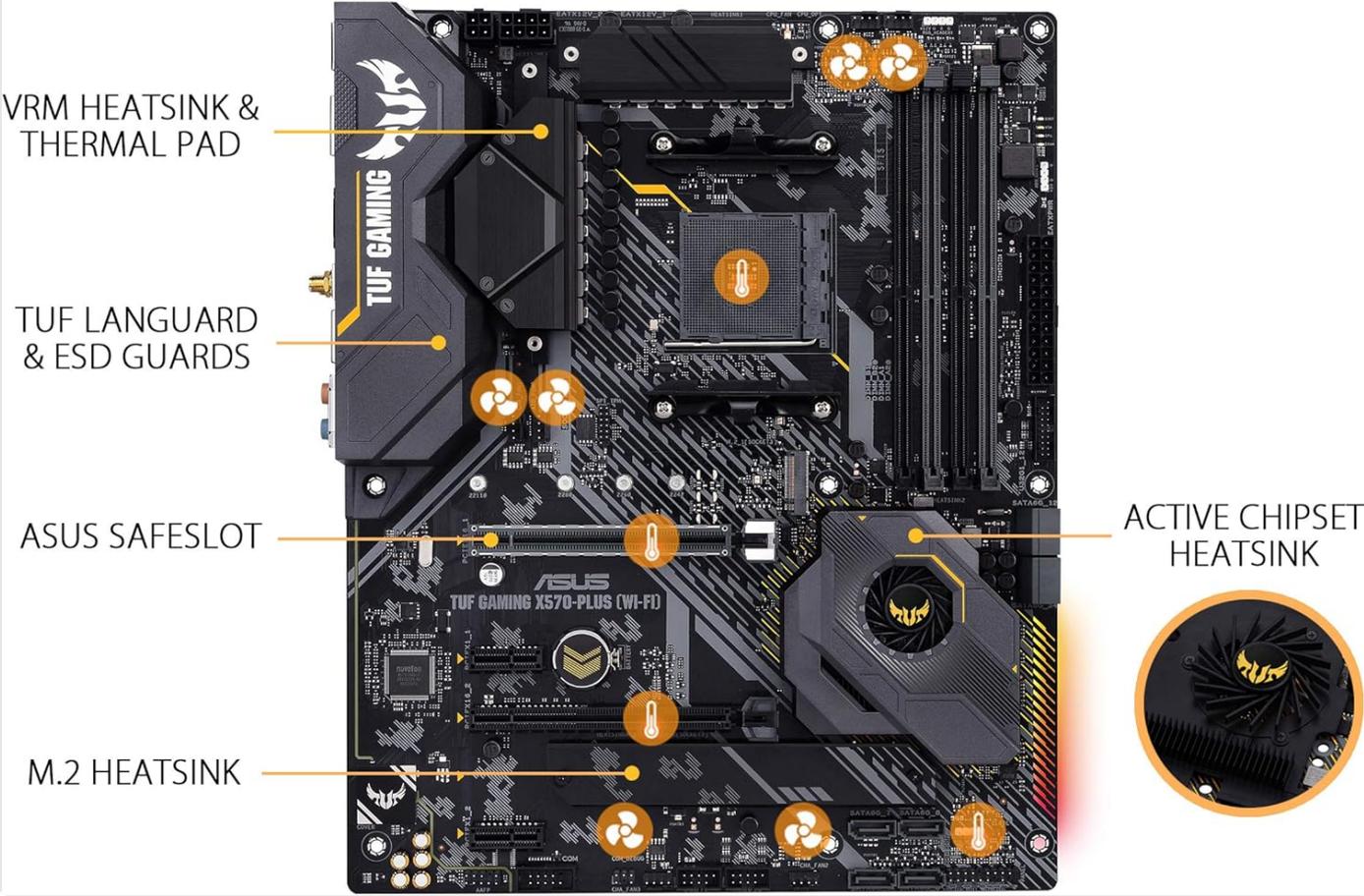


Figure 3: Comprehensive Cooling & Protection features, including VRM heatsink, TUF LANGuard, ASUS SafeSlot, M.2 heatsink, and active chipset heatsink.

Total Gaming Immersion

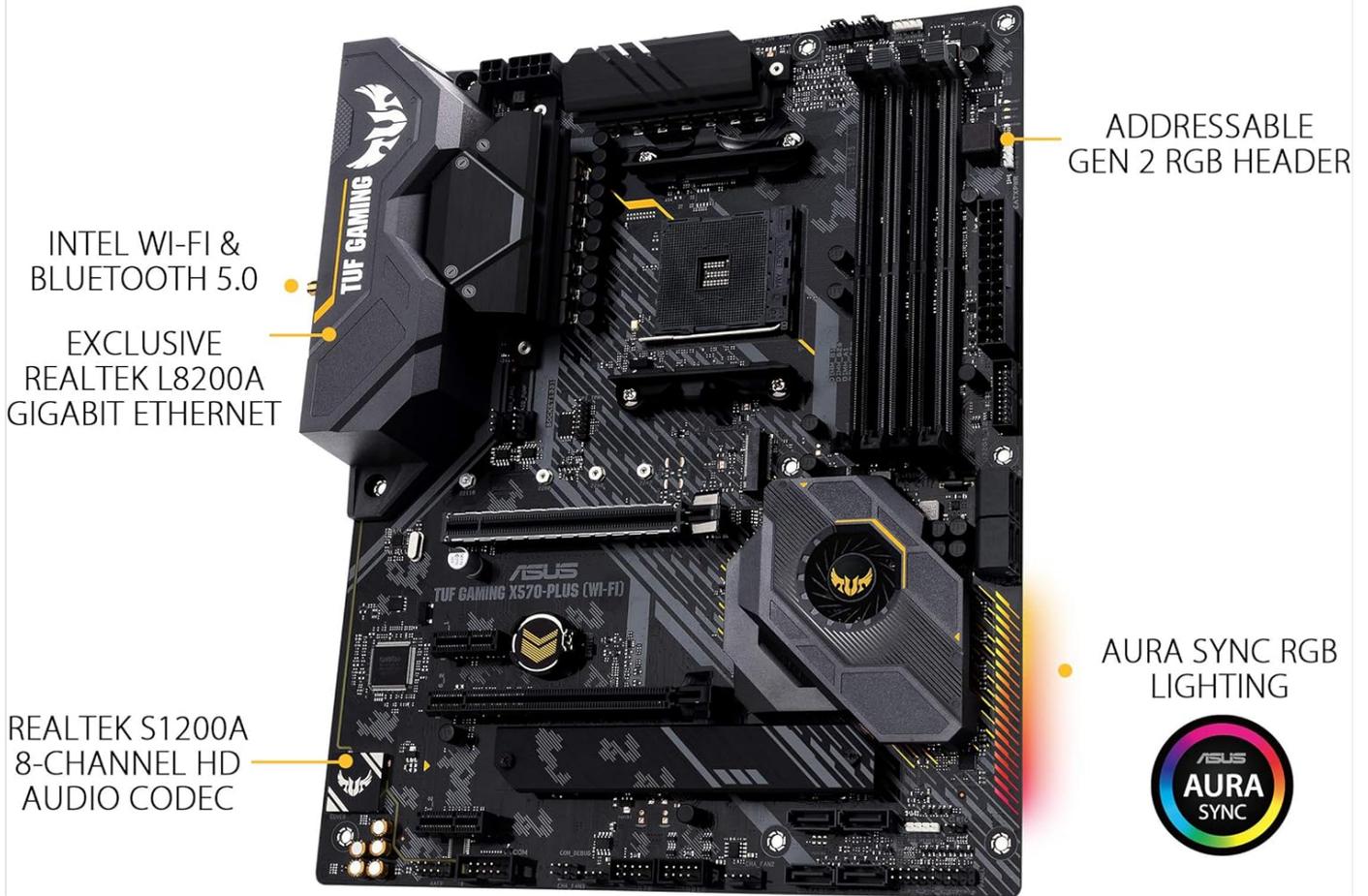


Figure 4: Total Gaming Immersion features, showcasing Intel Wi-Fi & Bluetooth 5.0, Realtek Gigabit Ethernet, Realtek Audio Codec, and Aura Sync RGB Lighting.

Full Gaming Connectivity

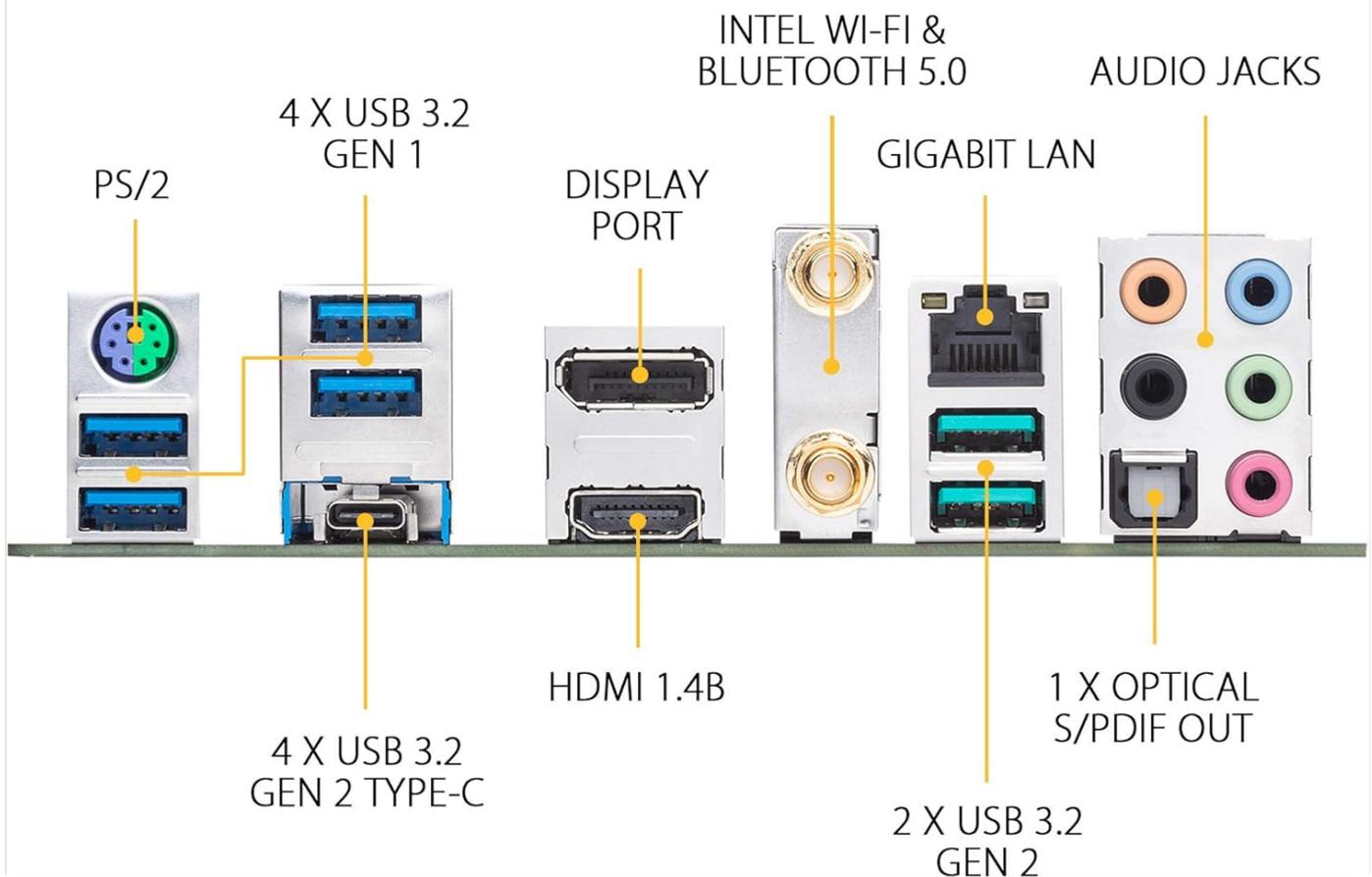


Figure 5: Full Gaming Connectivity, illustrating the rear I/O panel with various ports including USB, DisplayPort, HDMI, Gigabit LAN, and audio jacks.

3. SETUP GUIDE

3.1. Package Contents

Before beginning installation, please verify that all components are present in the package:

- ASUS TUF Gaming X570-Plus (Wi-Fi) Motherboard
- Rear I/O Panel Shield
- User Manual
- Support DVD
- 2 x SATA Cables
- M.2 Screw Package
- Wi-Fi Antenna
- TUF Gaming Sticker



Figure 6: Contents of the ASUS TUF Gaming X570-Plus (Wi-Fi) retail package.

3.2. Installation Steps

Follow these general steps for installing your motherboard into a PC chassis. Refer to the detailed user manual (PDF) for specific diagrams and safety precautions.

1. **Prepare the Chassis:** Ensure your PC case is ready for motherboard installation, with standoffs correctly aligned.
2. **Install the CPU:** Carefully place your AMD AM4 processor into the CPU socket. Ensure proper alignment and secure the retention arm.
3. **Install the CPU Cooler:** Attach the CPU cooler according to its manufacturer's instructions.
4. **Install RAM Modules:** Insert DDR4 memory modules into the DIMM slots. Refer to the motherboard manual for recommended slot population for optimal performance.
5. **Install M.2 SSDs:** Secure M.2 solid-state drives into the designated M.2 slots. Ensure the M.2 heatsink is properly installed over the SSD if applicable.
6. **Mount the Motherboard:** Carefully place the motherboard into the chassis, aligning it with the standoffs and the I/O

shield. Secure it with screws.

7. **Install Graphics Card (GPU):** Insert your graphics card into the primary PCIe x16 slot.
8. **Connect Power Cables:** Connect the 24-pin ATX power connector and the 8-pin (or 4+4-pin) CPU power connector from your power supply to the motherboard. Connect any necessary PCIe power cables to your graphics card.
9. **Connect Storage Drives:** Connect SATA data and power cables to your SATA SSDs/HDDs.
10. **Connect Front Panel Cables:** Connect the power button, reset button, USB ports, audio jacks, and LED indicators from your chassis to the corresponding headers on the motherboard.
11. **Install Wi-Fi Antenna:** Attach the included Wi-Fi antenna to the rear I/O panel connectors.

4. OPERATING INSTRUCTIONS

4.1. Initial Boot and BIOS Configuration

After completing hardware installation, connect your monitor, keyboard, and mouse. Power on your system. During the boot process, press the designated key (usually DEL or F2) to enter the BIOS/UEFI setup utility. Here you can:

- Set boot order.
- Configure memory profiles (DOCP/XMP).
- Monitor system temperatures and fan speeds.
- Update BIOS (see Maintenance section).

Important Note for Ryzen 5000 Series CPUs: Please ensure your BIOS is up to date if installing a compatible Ryzen 5000 series CPU. Visit the ASUS support site, search by motherboard model name, click on the “Support” tab, then “Drivers and Tools,” and finally “BIOS and Firmware” to download the latest BIOS version.

4.2. Driver Installation

After installing your operating system, install the necessary drivers for your motherboard components. These can be found on the included Support DVD or downloaded from the official ASUS support website. Key drivers include:

- Chipset Drivers (AMD)
- LAN Driver (Realtek Gigabit Ethernet)
- Wi-Fi and Bluetooth Drivers (Intel)
- Audio Driver (Realtek S1200A)
- USB Drivers

4.3. Software Utilities

ASUS provides several software utilities to enhance your experience:

- **Armoury Crate:** A centralized software suite for managing drivers, utilities, Aura Sync lighting, and game profiles.
- **Aura Sync:** Control and synchronize RGB lighting across compatible devices.
- **Fan Xpert:** Advanced fan control for optimal cooling and noise levels.

5. MAINTENANCE

5.1. Cleaning and Care

To ensure the longevity and stable operation of your motherboard:

- Regularly clean dust from inside your PC case using compressed air. Pay attention to heatsinks and fan blades.
- Ensure proper airflow within your chassis to prevent overheating.
- Avoid touching components directly with bare hands to prevent electrostatic discharge (ESD).

5.2. BIOS Updates

Periodically check the ASUS support website for the latest BIOS updates. BIOS updates can improve system stability, add support for new hardware (e.g., newer CPUs), and fix bugs. Follow the instructions provided by ASUS carefully when performing a BIOS update to avoid system damage.

6. TROUBLESHOOTING

6.1. Common Issues and Solutions

Problem	Possible Cause	Solution
System does not power on or POST (Power-On Self-Test).	Loose power cables, improperly seated components (CPU, RAM, GPU), faulty power supply.	Check all power connections. Reseat CPU, RAM, and GPU. Test with a known good power supply if possible. Clear CMOS.
No display output.	Monitor cable disconnected, GPU not seated correctly, incorrect display output selected.	Ensure monitor cable is securely connected to GPU/motherboard. Reseat GPU. Try different display outputs.
Operating system not detecting Wi-Fi/Bluetooth.	Missing or outdated drivers, Wi-Fi antenna not connected.	Install the latest Intel Wi-Fi and Bluetooth drivers from the ASUS website. Ensure the Wi-Fi antenna is securely attached.
System instability or crashes.	Outdated BIOS, unstable RAM settings, overheating, driver conflicts.	Update BIOS to the latest version. Reset RAM to default speeds or adjust timings. Ensure adequate cooling. Update all drivers.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	ASUS
Series	TUF GAMING X570-PLUS (Wi-Fi)
Item Model Number	TUF GAMING X570-PLUS (Wi-Fi)
CPU Socket	Socket AM4
Compatible Processors	AMD 3rd Generation Ryzen, 2nd and 1st Gen AMD Ryzen with Radeon Graphics Processors
Chipset Type	AMD X570
RAM Memory Technology	DDR4 SDRAM (DIMM)
Memory Speed	Up to 4400 MHz (OC)
Wireless Type	802.11ac Wi-Fi, Bluetooth 5.0

Feature	Specification
Number of USB 2.0 Ports	11 (total, including internal headers)
Product Dimensions (LxWxH)	10.74 x 2.68 x 13.31 inches
Item Weight	2.64 pounds
Platform	Windows 10

8. WARRANTY AND SUPPORT

8.1. Warranty Information

ASUS products are manufactured to the highest quality standards. For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official ASUS support website. Keep your proof of purchase for warranty claims.

8.2. Customer Support

For technical assistance, driver downloads, BIOS updates, or further information, please visit the official ASUS support website:

[ASUS Official Support Website](#)

You can also refer to the comprehensive User Manual (PDF) for your motherboard:

[Download User Manual \(PDF\)](#)