# TUF GAMING B550M-PLUS (WI-FI)

CPU Build in AMD AM4 Socket 3rd Gen AMD Ryzen™ Processors *
* Refer to www.asus.com for CPU support list

Chipset AMD B550

Memory **3rd Gen AMD Ryzen™ Processors**
4 x DIMM, Max. 128GB, DDR4
4400(O.C)/4000(O.C.)/3866(O.C.)/3600(O.C.)/3466(O.C.)/3200/3000/2800/2666/2400/2133 MHz Un-buffered Memory *
ECC Memory (ECC mode) support varies by CPU.
* Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).

Graphic 1 x DisplayPort 1.2
1 x HDMI 2.1(4K@60HZ)

Multi-GPU Support Supports AMD 2-Way CrossFireX Technology

Expansion Slots **3rd Gen AMD Ryzen™ Processors**
1 x PCIe 4.0 x16 (x16 mode)
**AMD B550 Chipset**
1 x PCIe 3.0 x16 (x4 mode) *[1]
1 x PCIe 3.0 x1 *[1]
* Support PCIe bifurcation for RAID on CPU function.

Storage **Total supports 2 x M.2 slots and 4 x SATA 6Gb/s ports**
**3rd Gen AMD Ryzen™ Processors :**
1 x M.2 Socket 3, with M Key, Type 2242/2260/2280 (PCIE 4.0 x4 and SATA modes) storage devices support
**AMD B550 Chipset :**
1 x M.2 Socket 3, with M Key, Type 2242/2260/2280/22110(PCIE 3.0 x4 and

SATA modes) storage devices support
4 x SATA 6Gb/s port(s),
Support Raid 0, 1, 10

## LAN
Realtek RTL8125B 2.5Gb Ethernet
TUF LANGuard

## Wireless Data Network
Intel® Wi-Fi 6 AX200
2x2 Wi-Fi 6 (802.11 a/b/g/n/ac/ax) support 1024QAM/OFDMA/MU-MIMO
Supports up to 2.4Gbps max data rate
Supports dual band frequency 2.4/5 GHz
Supports channel bandwidth: HT20/HT40/HT80/HT160
Supports PCIe interface

## Bluetooth
Bluetooth v5.1*
*BT 5.1 function will be ready in Windows 10 build 19041 or later.

## Audio
Realtek ALC S1200A 7.1 Surround Sound High Definition Audio CODEC
- Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking, up to 24-Bit/192kHz playback
**Audio Feature :**
- Exclusive DTS Custom for GAMING Headsets.
- Optical S/PDIF out port(s) at back panel
- Audio cover
- Audio Shielding
- Dedicated audio PCB layers
- Premium Japanese audio capacitors

## USB Ports
**Rear USB Port** ( Total 8 )
2 x USB 3.2 Gen 2 port(s)(1 x Type-A +1 x USB Type-C®)
4 x USB 3.2 Gen 1 port(s)(4 x Type-A)
2 x USB 2.0 port(s)(2 x Type-A)
**Front USB Port** ( Total 6 )
2 x USB 3.2 Gen 1 port(s)(2 x Type-A)
4 x USB 2.0 port(s)(4 x Type-A)

## Software Features
ASUS Exclusive Software
Armoury Crate
- Aura Creator
- Aura Sync
- AI Noise Cancelling Microphone
AI Suite 3

- Performance And Power Saving Utility
TurboV EVO
EPU
Digi+ VRM
Fan Xpert 2+
- EZ update
TUF GAMING CPU-Z
AI Charger
ASUS Turbo LAN
DAEMON Tools
DTS Custom for GAMING Headsets
Norton Anti-virus software (Free Trial for 60 days)
WinRAR
UEFI BIOS
ASUS EZ DIY
- ASUS CrashFree BIOS 3
- ASUS EZ Flash 3
- ASUS UEFI BIOS EZ Mode


## ASUS Special Features

ASUS TUF PROTECTION
- ASUS DIGI+ VRM (Digital power design with Dr. MOS)
- ASUS Enhanced DRAM Overcurrent Protection
- ASUS ESD Guards
- TUF LANGuard
- ASUS Overvoltage Protection
- ASUS SafeSlot
- ASUS Stainless-Steel Back I/O
ASUS Q-Design
- ASUS Q-DIMM
- ASUS Q-LED (CPU [red], DRAM [yellow], VGA [white], Boot Device [yellow green])
- ASUS Q-Slot
ASUS Thermal Solution
- Aluminum M.2 heatsink
ASUS EZ DIY
- BIOS FlashBack™ button
- BIOS FlashBack™ LED
- Procool
AURA Sync
- Standard RGB headers
- Addressable Gen 2 RGB header


## Back I/O Ports

1 x PS/2 keyboard/mouse combo port(s)
1 x DisplayPort
1 x HDMI
1 x LAN (2.5G) port(s)
2 x USB 3.2 Gen 2 (teal blue) (1 x Type-A+1 x USB Type-C®)

4 x USB 3.2 Gen 1 (blue) Type-A
2 x USB 2.0
1 x Optical S/PDIF out
5 x Audio jack(s)
1 x BIOS FlashBack™ Button(s)
1 x ASUS Wi-Fi Module

## Internal I/O Ports
1 x CPU Fan connector(s)
1 x CPU OPT Fan connector(s)
2 x Chassis Fan connector(s)
2 x Aura RGB Strip Headers
1 x Addressable Gen 2 header(s)
1 x USB 3.2 Gen 1(up to 5Gbps) connector(s) support(s) additional 2 USB 3.2 Gen 1 port(s)
2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)
1 x M.2 Socket 3 with M Key, type 2242/2260/2280 storage devices support (SATA & PCIE 4.0 x 4 mode)
1 x M.2 Socket 3 with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIE 3.0 x 4 mode)
1 x SPI TPM header
4 x SATA 6Gb/s connector(s)
1 x 24-pin EATX Power connector(s)
1 x 8-pin EATX 12V Power connectors
1 x Front panel audio connector(s) (AAFP)
1 x Clear CMOS jumper(s)
1 x System panel connector
1 x COM port header
1 x Speaker connector

## Accessories
User's manual
I/O Shield
2 x SATA 6Gb/s cable(s)
1 x Supporting DVD
1 x TUF Gaming Sticker
1 x TUF Certification card(s)
1 x Wi-Fi moving antenna
1 x M.2 SSD screw package(s)
1 x M.2 Rubber Package(s)

## BIOS
256 Mb Flash ROM, UEFI AMI BIOS

## Manageability
WOL by PXE

## Operating System
Windows® 10 64-bit

**Form Factor** mATX Form Factor
9.6 inch x 9.6 inch ( 24.4 cm x 24.4 cm )

**Note** *1 PCIEX16_2 will run x2 mode when PCIEX1 is used.

**HDMI**®
HIGH-DEFINITION MULTIMEDIA INTERFACE