

PRIME B550M-A (WI-FI)

CPU Build in AMD AM4 Socket for 3rd Gen AMD Ryzen™ and 3rd Gen AMD Ryzen™ with Radeon™ Graphics 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

4600(O.C.)/4400(O.C.)/4266(O.C.)/4133(O.C.)/4000(O.C.)/3866(O.C.)/3733(O.C.)/3600(O.C.)/3466(O.C.)/3333(O.C.)/3200/3000/2800/2666/2400/2133 MHz Un-buffered Memory *

3rd Gen AMD Ryzen™ with Radeon™ Graphics Processors

4 x DIMM, Max. 128GB, DDR4

4800(O.C.)/4600(O.C.)/4466(O.C.)/4400(O.C.)/4266(O.C.)/4133(O.C.)/4000(O.C.)/3866(O.C.)/3733(O.C.)/3600(O.C.)/3466(O.C.)/3333(O.C.)/3200/3000/2800/2666/2400/2133 MHz Un-buffered Memory *

Dual Channel Memory Architecture

ECC Memory (ECC mode) support varies by CPU.

* Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).

Graphic 1 x D-Sub

1 x DVI-D

1 x HDMI 2.1(4K@60HZ)

*Graphics specifications may vary between CPU types.

Expansion Slots 3rd Gen AMD Ryzen™ Processors

1 x PCIe 4.0 x16 (x16 mode)

3rd Gen AMD Ryzen™ with Radeon™ Graphics Processors

1 x PCIe 3.0 x16 (x16 mode)

AMD B550 Chipset

2 x PCIe 3.0 x1

StorageTotal supports 2 x M.2 slot(s) and 4 x SATA 6Gb/s ports

3rd Gen AMD Ryzen™ Processors :

1 x M.2_1 socket 3, with M Key, Type 2242/2260/2280/22110(PCIE 4.0 x4 and SATA modes) storage devices support

3rd Gen AMD Ryzen™ with Radeon™ Graphics Processors :

1 x M.2_1 socket 3, with M Key, Type 2242/2260/2280/22110(PCIE 3.0 x4 and SATA modes) storage devices support

AMD B550 Chipset :

1 x M.2_2 socket 3, with M Key, Type 2242/2260/2280 (PCIE 3.0 x4 and SATA modes) storage devices support

4 x SATA 6Gb/s port(s),

Support Raid 0, 1, 10

LANRealtek RTL8111H 1Gb Ethernet

Wireless Data NetworkIntel® 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

BluetoothBluetooth v5.1*

*BT 5.1 function will be ready in Windows 10 build 19041 or later.

AudioRealtek ALC887 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 :

- LED-illuminated design

- Audio Shielding

- Dedicated audio PCB layers

- Premium Japanese audio capacitors

* Choose the chassis with HD audio module in front panel to support 8-channel audio output.

USB PortsRear **USB Port** (Total 6)

2 x USB 3.2 Gen 2 port(s)(2 x Type-A)

4 x USB 3.2 Gen 1 port(s)(4 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 Suite 3

- Performance And Power Saving Utility

TurboV EVO

EPU

Digi+ VRM

Fan Xpert 2+

- EZ update

ASUS CPU-Z

AI Charger

DAEMON Tools

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 5X PROTECTION III

- ASUS DIGI+ VRM
- ASUS LANGuard
- ASUS Overvoltage Protection
- ASUS SafeSlot Core
- ASUS Stainless-Steel Back I/O

ASUS Q-Design

- ASUS Q-DIMM
- ASUS Q-Slot

ASUS Thermal Solution

- Aluminum heatsink design

AURA Sync

- Standard RGB headers
- Addressable Gen 2 RGB header

ASUS Lighting Control

Back I/O Ports 1 x PS/2 keyboard/mouse combo port(s)

1 x DVI-D

1 x D-Sub

1 x HDMI

1 x LAN (RJ45) port(s)

2 x USB 3.2 Gen 2 (teal blue) (2 x Type-A)

4 x USB 3.2 Gen 1 (blue) Type-A

3 x Audio jack(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 2242/2260/2280/22110 storage devices support (SATA mode & X4 PCIE mode)
1 x M.2 Socket 3 with M Key, type 2242/2260/2280 storage devices support (SATA mode & X4 PCIE mode)
1 x SPI TPM header
4 x SATA 6Gb/s connector(s)
1 x S/PDIF out header(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

I/O Shield
2 x SATA 6Gb/s cable(s)
1 x Supporting DVD
User manual
1 x Wi-Fi moving antenna
1 x M.2 SSD screw 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)