

## ROG STRIX B550-F GAMING (WI-FI)

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### CPU AMD AM4 Socket 3rd Gen AMD Ryzen™ Processors

\* Refer to [www.asus.com](http://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.)/4133(O.C.)/4000(O.C.)/3866(O.C.)/3600(O.C.)/3466(O.C.)/  
3200/3000/2800/2666/2400/2133 MHz Un-buffered Memory

### Next Generation AMD Ryzen PRO Processors

4 x DIMM, Max. 128GB, DDR4

5100(O.C.)/5000(O.C.)/4800(O.C.)/4600(O.C.)/4400(O.C.)/4133(O.C.)/4000(O.C.)/  
3866(O.C.)/3600(O.C.)/3466(O.C.)/3200/3000/2800/2666/2400/2133 MHz

Memory

Dual Channel Memory Architecture

OptiMem II

ECC Memory (ECC mode) support varies by CPU.

\* Refer to [www.asus.com](http://www.asus.com) for the Memory QVL (Qualified Vendors Lists).

### Graphic Integrated Graphics Processor

1 x DisplayPort 1.2

1 x HDMI 2.1(4K@60HZ)

\*Graphics specifications may vary between CPU types.

### 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) \*

3 x PCIe 3.0 x1

## Storage Total supports 2 x M.2 slots and 6 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 storage devices support(SATA & PCIe 4.0 x4 mode)

### AMD B550 Chipset :

1 x M.2\_2 socket 3, with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIE 3.0 x 4 mode)\*

6 x SATA 6Gb/s port(s)

Support Raid 0, 1, 10

**LAN** Intel® I225-V 2.5Gb Ethernet  
ASUS 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 dual band frequency 2.4/5 GHz  
Supports channel bandwidth: HT20/HT40/HT80/HT160

**Bluetooth** Bluetooth v5.1\*

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

**Audio** ROG SupremeFX 7.1-Channel High Definition Audio CODEC S1220A

- Dual OP Amplifiers
- Impedance sense for front and rear headphone outputs
- Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking
- High quality 120 dB SNR stereo playback output and 113 dB SNR recording input
- Supports up to 32-Bit/192kHz playback \*

### Audio Feature :

- SupremeFX Shielding™ Technology
- Optical S/PDIF in port(s) at back panel
- Audio Shielding
- Premium Japanese audio capacitors
- Audio Cover

\* Due to limitations in HDA bandwidth, 32-Bit/192kHz is not supported for 8-Channel audio.

**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)

**Front USB Port** ( Total 6 )

2 x USB 3.2 Gen 1 port(s)

4 x USB 2.0 port(s)

## Software Features

### ROG Exclusive Software

- RAMCache III
- ROG CPU-Z
- GameFirst VI
- Sonic Studio III + Sonic Studio Virtual Mixer
- Sonic Radar III
- DTS® Sound Unbound
- Overwolf
- Anti-virus software

### ASUS Exclusive Software Features

#### Armoury Crate

- Aura Creator
- Aura Sync
- AI Noise Cancelling Microphone

#### AI Suite 3:

- PPSU

#### EPU

#### DIGI+ VRM

#### Fan Xpert 4

#### TurboV EVO

- EZ update

#### WinRAR

#### UEFI BIOS

#### ASUS EZ DIY

- ASUS CrashFree BIOS 3
- ASUS EZ Flash 3
- ASUS UEFI BIOS EZ Mode

## ASUS Special Features

### Aura Sync

- Standard RGB header(s)
- Addressable Gen 2 RGB header(s)

#### ASUS Q-Design

- ASUS Q-DIMM
- ASUS Q-LED (DRAM [yellow], CPU [red], 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
- Clear CMOS header
- ProCool
- Pre-mounted I/O shield
- SafeSlot

## Back I/O Ports

- 1 x Intel® I225-V 2.5Gb Ethernet
- 1 x DisplayPort
- 1 x HDMI

2 x USB 3.2 Gen 2 (1 x Type-A+1 x USB Type-C<sup>®</sup>)  
4 x USB 3.2 Gen 1  
2 x USB 2.0  
1 x Optical S/PDIF out  
5 x Audio jack(s)  
1 x BIOS FlashBack™ Button(s)  
ASUS Wi-Fi module (Wi-Fi 802.11 a/b/g/n/ac and Bluetooth v5.0)

### Internal I/O Ports

1 x CPU Fan connector(s)  
1 x CPU OPT Fan connector(s)  
3 x Chassis Fan connector(s)  
1 x AIO\_PUMP connector  
1 x AAFP connector  
2 x Aura RGB Strip Header(s)  
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 1 with M key, type 2242/2260/2280/22110 storage devices support(SATA & PCIe 4.0 x4 mode)  
1 x M.2 Socket 2 with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIE 3.0 x 4 mode)  
6 x SATA 6Gb/s connector(s)  
1 x Thunderbolt header(s)  
1 x 24-pin EATX Power connector(s)  
1 x 8-pin ATX 12V Power connector(s)  
1 x 4-pin ATX 12V Power connector(s)  
1 x System panel(s)  
1 x Thermal sensor connector(s)  
1 x Clear CMOS jumper(s)

### Accessories

User's manual  
4 x SATA 6Gb/s cable(s)  
1 x Supporting DVD  
1 x ROG Strix stickers  
1 x Cable ties pack(s)  
1 x Extension cable for Addressable LED  
1 x ROG Thank you card  
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 PME, PXE

**Operating System** Windows® 10 64-bit

**Form Factor** ATX Form Factor  
12 inch x 9.6 inch ( 30.5 cm x 24.4 cm )

**Note**\* Share bandwidth with PCIe3.0 x1\_1, PCIe3.0 x1\_2, PCIe3.0 x1\_3  
\* When the M.2\_2 Socket 3 is populated , SATA6G\_5/6 ports will be disabled.



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