

ROG STRIX B550-F GAMING WIFI II

rog.asus.com/motherboards/rog-strix/rog-strix-b550-f-gaming-wifi-ii-model/spec



CPU

AMD AM4 Socket for AMD Ryzen™ 5000 and 3000 Series/ 5000 and 4000 G-Series Desktop Processors*

*Refer to www.asus.com for the AMD® CPU support list.

Chipset

AMD B550 Chipset

Memory

AMD Ryzen™ 5000 and 3000 Series Desktop Processors

4 x DIMM, Max. 128GB, DDR4

4800(O.C.)/4666(O.C.)/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.)/3400(O.C.) MHz, Un-buffered Memory *

AMD Ryzen™ 5000 and 4000 G-Series Processors

4 x DIMM, Max. 128GB, DDR4

5100(O.C.)/4866(O.C.)/4600(O.C.)/4466(O.C.)/4400(O.C.)/4266(O.C.)/4133(O.C.)/4000(O.C.)/3866(O.C.)/3600(O.C.)/3466(O.C.)/3200/3000 MHz, Un-buffered Memory *

ECC Memory (ECC mode) support varies by CPU.

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

Graphics

1 x DisplayPort 1.2

1 x HDMI® 2.1

*Graphics specifications may vary between CPU types.

Expansion Slots

AMD Ryzen™ 5000 and 3000 Series/ 5000 and 4000 G-Series Desktop Processors

1 x PCIe 4.0 x16 SafeSlot (supports x16 mode)

AMD B550 chipset

1 x PCIe 3.0 x16 slot (supports x4 mode)*

3 x PCIe 3.0 x1 slots

*Share bandwidth with PCIe3.0 x1_1, PCIe3.0 x1_2, PCIe3.0 x1_3

Storage

Total supports 2 x M.2 slots and 6 x SATA 6Gb/s ports

AMD Ryzen™ 5000 and 3000 Series/ 5000 and 4000 G-Series Desktop Processors

M.2_1 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 4.0 x4 & SATA modes)

AMD B550 Chipset:

M.2_2 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 3.0 x4 & SATA modes)*

6 x SATA 6Gb/s ports

Support RAID 0, 1, 10

* When the M.2_2 Slot is populated, SATA6G_5/6 ports will be disabled.

Ethernet

1 x Intel® I225-V 2.5Gb Ethernet

ASUS LANGuard

Wireless & Bluetooth

Wi-Fi 6E

2x2 Wi-Fi 6E (802.11 a/b/g/n/ac/ax)

Supports 2.4/5/6GHz frequency band*

Bluetooth v5.2

* Wi-Fi 6E 6GHz regulatory may vary between countries, and function will be ready in Windows 11 or later.

USB

Rear USB: Total 8 ports

2 x USB 3.2 Gen 2 ports (1 x Type-A + 1 x USB Type-C®)

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

2 x USB 2.0 ports

Front USB: Total 6 ports

1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports

2 x USB 2.0 headers support additional 4 USB 2.0 ports

Audio

ROG SupremeFX 7.1-Channel High Definition Audio CODEC S1220A

- Impedance sense for front and rear headphone outputs
- 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 Features

- SupremeFX Shielding Technology
- Dual OP Amplifiers
- Premium audio capacitors
- Audio cover

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

Back Panel I/O Ports

2 x USB 3.2 Gen 2 ports (1 x Type-A + 1 x USB Type-C®)

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

2 x USB 2.0 ports

1 x Wi-Fi Module

1 x DisplayPort

- 1 x HDMI® port
- 1 x Intel® I225-V 2.5G Ethernet
- 1 x Optical S/PDIF out
- 5 x Audio jacks
- 1 x BIOS FlashBack™ button

Internal I/O Connectors

Fan and cooling related

- 1 x 4-Pin AIO_Pump header
- 1 x 4-Pin CPU fan header
- 1 x 4-Pin CPU_OPT fan header
- 3 x 4-Pin Chassis fan headers

Power related

- 1 x 24-pin main power connector
- 1 x 8-pin +12V power connector
- 1 x 4-pin +12V power connector

Storage related

- 2 x M.2 slots (Key M)
- 6 x SATA 6Gb/s ports

USB ports

- 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports
- 2 x USB 2.0 headers support additional 4 USB 2.0 ports

Miscellaneous

- 1 x Addressable Gen 2 header
- 2 x AURA RGB headers
- 1 x Clear CMOS header
- 1 x Front panel audio header (AAFP)
- 1 x 20-3 pin System Panel header with Chassis intrude function
- 1 x Thermal sensor header
- 1 x Thunderbolt™ header

Special Features

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

- M.2 heatsink

AURA Sync

- AURA RGB headers
- Addressable Gen 2 RGB headers

ASUS EZ DIY

- BIOS FlashBack™ button
- BIOS FlashBack™ LED
- Clear CMOS header
- ProCool
- Pre-mounted I/O shield
- SafeSlot

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

- AIDA64 Extreme (60 days free trial)
- Aura Creator
- Aura Sync
- Two-Way AI Noise Cancelation

AI Suite 3:

- Performance And Power Saving Utility

EPU

DIGI+ VRM

Fan Xpert 4

TurboV EVO

- EZ update

WinRAR

DAEMON Tools

Norton Anti-virus software (Free Trial version)

UEFI BIOS

ASUS EZ DIY

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

BIOS

256 Mb Flash ROM, UEFI AMI BIOS

Manageability

WOL by PME, PXE

Accessories

Cables

1 x Addressable RGB extension cable

4 x SATA 6Gb/s cables

Miscellaneous

1 x ASUS Wi-Fi moving antennas

1 x Cable ties pack

1 x M.2 Rubber Package

1 x M.2 SSD screw package

1 x ROG key chain

1 x ROG Strix stickers

1 x ROG Strix thank you card

Installation Media

1 x Support DVD

Documentation

1 x User manual

Operating System

Windows® 11 64-bit, Windows® 10 64-bit

Form Factor

ATX

30.5cm x 24.4cm

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