

ROG STRIX B550-E GAMING

CPU 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.)/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

Dual Channel Memory Architecture

OptiMem II

ECC Memory (ECC mode) support varies by CPU.

* Refer to 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 NVIDIA 2-Way SLI® Technology

Supports AMD 3-Way CrossFireX™ Technology

Expansion Slots 3rd Gen AMD Ryzen™ Processors

2 x PCIe 4.0 x16 (x16 or dual x8)

AMD B550 Chipset

1 x PCIe 3.0 x16 (x4 mode) *

2 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 :

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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
- Rear audio USB Type-C® port
- Audio Shielding
- Premium Japanese audio capacitors
- Audio Cover

USB Ports **Rear USB Port** (Total 8)
3 x USB 3.2 Gen 2 port(s) (2 x Type-A + 1 x USB Type-C®)
4 x USB 2.0 port(s) (4 x Type-A)
1 x USB 2.0 port(s) (1 x audio USB Type-C®)
Front USB Port (Total 7)
2 x USB 3.2 Gen 1 port(s)
4 x USB 2.0 port(s)
1 x USB 3.2 Gen 2 front panel connector 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

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- Overwolf
- Anti-virus software

ASUS Exclusive Software Features

Armoury Crate

- Aura Creator
- Aura Sync

Ai noise cancelling microphone

AI Suite 3:

- 5-way Optimization

TPU

EPU

DIGI+ VRM

Fan Xpert 4

Turbo APP

- EZ update

WinRAR

UEFI BIOS

ASUS EZ DIY

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

FlexKey

ASUS Special Features

Aura Sync

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

ASUS Q-Design

- ASUS Q-CODE
- 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

Rear audio USB Type-C® connector

Back I/O Ports

1 x Intel® I225-V 2.5Gb Ethernet

1 x DisplayPort

1 x HDMI

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

5 x USB 2.0 (1 for audio USB Type-C®)

5 x Audio jack(s)

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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)
2 x Addressable Gen 2 header(s)
1 x USB 3.2 Gen2 connector support additional 1 USB ports(20-pin, Type-C)
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)
1 x Q-Code

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 RGB strips (80 cm)
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)
1 x ROG audio USB Type-C® cable
1 ROG key chain

BIOS

256 Mb Flash ROM, UEFI AMI BIOS

Manageability

WOL by PME, PXE

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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

** When the M.2_2 Socket 3 is populated , SATA6G_5/6 ports will be disabled.

'* Due to limitations in HDA bandwidth, 32-Bit/192 kHz is not supported for 7.1-Channel audio.



- Products certified by the Federal Communications Commission and Industry Canada will be distributed in the United States and Canada. Please visit the ASUS USA and ASUS Canada websites for information about locally available products.
- All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets.
- Specifications and features vary by model, and all images are illustrative. Please refer specification pages for full details.
- PCB color and bundled software versions are subject to change without notice.
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The product (electrical , electronic equipment, Mercury-containing button cell battery) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

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