# ASUS ROG STRIX B850-A GAMING WIFI AMD B850 Socket AM5 ATX
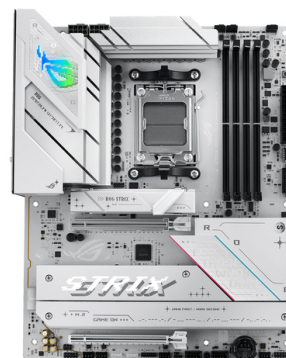
**Brand :** ASUS

**Product code:** 90MB1J50-M0EAY0

**Product name :** ROG STRIX B850-A GAMING WIFI

ROG STRIX B850-A GAMING WIFI motherboard socket AMD AM5 (AMD B850, ATX, DDR5 memory, PCIe 5.0, WiFi 7, 3x PCIe 4.0 M.2, Aura Sync)
ASUS ROG STRIX B850-A GAMING WIFI. Processor manufacturer: AMD, Processor socket: Socket AM5, Compatible processor series: AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series. Supported memory types: DDR5-SDRAM, Maximum internal memory: 192 GB, Memory slots type: DIMM. Supported storage drive interfaces: M.2, SATA III, Supported storage drive types: HDD & SSD, RAID levels: 0, 1, 5, 10. Maximum resolution: 7680 x 4320 pixels. Ethernet interface type: 2.5 Gigabit Ethernet, Top Wi-Fi standard: Wi-Fi 7 (802.11be), Wi-Fi standards: Wi-Fi 7 (802.11be)

## Processor

| | |
|---|---|
| Processor manufacturer * | AMD |
| Processor socket * | Socket AM5 |
| Compatible processor series * | AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series |
| Supported processor sockets | Socket AM5 |

## Memory

| | |
|---|---|
| Supported memory types * | DDR5-SDRAM |
| Number of memory slots * | 4 |
| Memory slots type | DIMM |
| Memory channels | Dual-channel |
| ECC compatibility | ECC & Non-ECC |
| Supported memory clock speed (max) | 8000 MHz |
| Maximum internal memory * | 192 GB |
| Unbuffered memory | ✔ |

## Storage controllers

| | |
|---|---|
| Supported storage drive types | HDD & SSD |
| Supported storage drive interfaces * | M.2, SATA III |
| Number of HDDs supported | 2 |
| Number of storage drives supported | 6 |
| RAID support | ✔ |
| RAID levels | 0, 1, 5, 10 |

## Graphics

| | |
|---|---|
| Parallel processing technology support * | Not supported |
| On-board graphics card | ✖ |
| Maximum resolution | 7680 x 4320 pixels |

## Rear panel I/O ports

| | |
|---|---|
| Ethernet LAN (RJ-45) ports * | 1 |
| HDMI ports quantity * | 1 |
| HDMI version | 2.1 |
| DisplayPorts quantity | 1 |
| DisplayPort version | 1.4 |
| Headphone outputs | 1 |
| Line-in | ✔ |
| S/PDIF out port | ✔ |
| Digital audio optical out | 1 |
| WiFi-AP antenna jack | 2 |

## Network

| | |
|---|---|
| Ethernet LAN | ✔ |
| Ethernet interface type | 2.5 Gigabit Ethernet |
| Wi-Fi * | ✔ |
| Top Wi-Fi standard | Wi-Fi 7 (802.11be) |
| Wi-Fi standards | Wi-Fi 7 (802.11be) |
| Bluetooth | ✔ |
| Bluetooth version | 5.4 |

## Features

| | |
|---|---|
| Motherboard chipset * | AMD B850 |
| Audio chip | Realtek ALC4080 |
| Audio output channels * | 7.1 channels |
| Product colour | White |
| Component for * | PC |
| Motherboard form factor * | ATX |
| Motherboard chipset family * | AMD |
| Power source type | ATX |

## Internal I/O

| | |
|---|---|
| USB 2.0 connectors * | 2 |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors * | 1 |
| USB 3.2 Gen 2 (3.1 Gen 2) connectors * | 1 |
| Number of SATA III connectors * | 2 |
| Front panel audio connector | ✔ |
| Front panel connector | ✔ |
| ATX Power connector (24-pin) | ✔ |
| CPU fan connector | ✔ |
| Number of CPU fan connectors | 2 |
| Number of chassis fan connectors | 4 |
| EPS power connector (8-pin) | ✔ |
| Number of EPS power connectors (8-pin) | 2 |
| Thunderbolt headers | 1 |
| Number of water pump connectors | 1 |
| Number of temperature sensor headers | 1 |
| RGB LED pin header | ✔ |
| Number of RGB LED pin headers | 3 |

## Rear panel I/O ports

| | |
|---|---|
| USB 2.0 ports quantity * | 2 |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 4 |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 2 |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity * | 1 |
| USB 3.2 Gen 2x2 Type-C ports quantity | 1 |

## Features

| | |
|---|---|
| Windows operating systems supported | Windows 11 |

## Expansion slots

| | |
|---|---|
| PCI Express x16 (Gen 4.x) slots | 1 |
| PCI Express x16 (Gen 5.x) slots | 1 |
| Number of M.2 (M) slots | 4 |
| 1st M.2 largest key size | 2280 |
| 1st M.2 highest PCI Express generation | 5.0 |
| 2nd M.2 largest key size | 22110 |
| 2nd M.2 highest PCI Express generation | 4.0 |
| 3rd M.2 largest key size | 2280 |
| 3rd M.2 highest PCI Express generation | 4.0 |
| 4th M.2 largest key size | 2280 |
| 4th M.2 highest PCI Express generation | 4.0 |

## BIOS

| | |
|---|---|
| BIOS type * | UEFI AMI |
| BIOS memory size | 256 Mbit |
| Clear CMOS button | ✔ |

## Packaging data

| | |
|---|---|
| Package width | 353 mm |
| Package depth | 273 mm |
| Package height | 68 mm |
| Package weight | 2.04 kg |

## Weight & dimensions

| | |
|---|---|
| Width | 305 mm |
| Depth | 244 mm |

## Packaging content

| | |
|---|---|
| Cables included | SATA |
| Antenna included | ✔ |

## Other features

| | |
|---|---|
| Weight | 2.04 kg |
| Quick installation guide | ✔ |

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**Catalog Object Cloud**