

## ASUS TUF GAMING B850I WIFI NEO AMD B850 Socket AM5 mini ITX

**Brand :** ASUS

**Product code:** 90MB1PI0-M0EAY0

**Product name :** TUF GAMING B850I WIFI NEO

TUF GAMING B850I WIFI NEO AMD B850 Mini-ITX motherboard (8+2+1 80-A DrMOS power stages, DDR5, PCIe 5.0 capable, two M.2 slots, Wi-Fi 6E, Realtek 2.5 Gb Ethernet, HDMI, DisplayPort, up to 20 Gbps Type-C rear & USB 10 Gbps Type-C front, Clear CMOS button, BIOS FlashBack, 32 MB BIOS, Aura Sync)

**ASUS TUF GAMING B850I WIFI NEO AMD B850 Socket AM5 mini ITX:**

ASUS TUF GAMING B850I WIFI NEO brings TUF GAMING performance to the Mini-ITX form factor for the first time. Designed for the latest AMD Ryzen™ processors, it features a premium 10-layer server-grade circuit board with 2-ounce low-loss copper power planes for enhanced signal integrity and stable power delivery. Built with military-grade components, durable architectures, and a balanced power solution, this compact motherboard delivers the rock-solid reliability, speed and connectivity that gaming and advanced AI PC applications demand.



| Processor                                |                                                                     | Rear panel I/O ports                              |                      |
|------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------|----------------------|
| Processor manufacturer *                 | AMD                                                                 | USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 2                    |
| Processor socket *                       | Socket AM5                                                          | USB 3.2 Gen 2x2 Type-C ports quantity             | 1                    |
| Compatible processor series *            | AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series | Ethernet LAN (RJ-45) ports *                      | 1                    |
| Supported processor sockets              | Socket AM5                                                          | HDMI ports quantity *                             | 1                    |
| Memory                                   |                                                                     | HDMI version                                      | 2.1                  |
| Supported memory types *                 | DDR5-SDRAM                                                          | DisplayPorts quantity                             | 1                    |
| Number of memory slots *                 | 2                                                                   | DisplayPort version                               | 1.4                  |
| Memory slots type                        | DIMM                                                                | Headphone outputs                                 | 1                    |
| Memory channels                          | Dual-channel                                                        | Line-in                                           | ✓                    |
| ECC compatibility                        | ECC & Non-ECC                                                       | Microphone in                                     | ✓                    |
| Supported memory clock speed (max)       | 9600 MHz                                                            | WiFi-AP antenna jack                              | 2                    |
| Maximum internal memory *                | 128 GB                                                              | Network                                           |                      |
| Unbuffered memory                        | ✓                                                                   | Ethernet LAN                                      | ✓                    |
| Maximum internal memory per slot         | 64 GB                                                               | Ethernet interface type                           | 2.5 Gigabit Ethernet |
| Storage controllers                      |                                                                     | Wi-Fi *                                           | ✓                    |
| Supported storage drive types            | HDD & SSD                                                           | Top Wi-Fi standard                                | Wi-Fi 6E (802.11ax)  |
| Supported storage drive interfaces *     | M.2, PCI Express 4.0, PCI Express 5.0, SATA III                     | Wi-Fi standards                                   | Wi-Fi 6E (802.11ax)  |
| Number of HDDs supported                 | 2                                                                   | Bluetooth                                         | ✓                    |
| Number of storage drives supported       | 4                                                                   | Features                                          |                      |
| RAID support                             | ✓                                                                   | Motherboard chipset *                             | AMD B850             |
| RAID levels                              | 0, 1, 5, 10                                                         | Audio output channels *                           | 7.1 channels         |
| Graphics                                 |                                                                     | Product colour                                    | Black                |
| Parallel processing technology support * | Not supported                                                       | Component for *                                   | PC                   |
| Maximum resolution                       | 7680 x 4320 pixels                                                  | Motherboard form factor *                         | mini ITX             |
|                                          |                                                                     | Motherboard chipset family *                      | AMD                  |
|                                          |                                                                     | Cooling type                                      | Passive              |

| Internal I/O                                      |   | Features                               |            |
|---------------------------------------------------|---|----------------------------------------|------------|
| USB 2.0 connectors *                              | 1 | Power source type                      | ATX        |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors *            | 1 | Windows operating systems supported    | Windows 11 |
| USB 3.2 Gen 2 (3.1 Gen 2) connectors *            | 1 | Expansion slots                        |            |
| Number of SATA III connectors *                   | 2 | PCI Express x16 (Gen 5.x) slots        | 1          |
| Front panel audio connector                       | ✓ | Number of M.2 (M) slots                | 2          |
| Front panel connector                             | ✓ | 1st M.2 largest key size               | 2280       |
| ATX Power connector (24-pin)                      | ✓ | 1st M.2 highest PCI Express generation | 5.0        |
| CPU fan connector                                 | ✓ | 2nd M.2 largest key size               | 2280       |
| Number of CPU fan connectors                      | 1 | 2nd M.2 highest PCI Express generation | 4.0        |
| Number of chassis fan connectors                  | 2 | BIOS                                   |            |
| Chassis intrusion connector                       | ✓ | BIOS type *                            | UEFI AMI   |
| EPS power connector (8-pin)                       | ✓ | BIOS memory size                       | 256 Mbit   |
| Number of EPS power connectors (8-pin)            | 1 | BIOS flashback button                  | ✓          |
| 12V power connector                               | ✓ | Packaging data                         |            |
| Number of water pump connectors                   | 1 | Package width                          | 219 mm     |
| RGB LED pin header                                | ✓ | Package depth                          | 277 mm     |
| Number of RGB LED pin headers                     | 2 | Package height                         | 107 mm     |
| Rear panel I/O ports                              |   | Package weight                         | 1.32 kg    |
| USB 2.0 ports quantity *                          | 2 | Weight & dimensions                    |            |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 1 | Width                                  | 170 mm     |
|                                                   |   | Depth                                  | 170 mm     |
|                                                   |   | Height                                 | 44 mm      |
|                                                   |   | Packaging content                      |            |
|                                                   |   | Cables included                        | SATA       |
|                                                   |   | Antenna included                       | ✓          |
|                                                   |   | Screws included                        | ✓          |
|                                                   |   | Other features                         |            |
|                                                   |   | Weight                                 | 720 g      |
|                                                   |   | Quick installation guide               | ✓          |



4711636580915

### Catalog Object Cloud



Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity. Automated scraping, data mining, or harvesting for the purpose of training machine learning models, neural networks, or artificial intelligence systems is strictly prohibited without a commercial license.