



**Mainboard ASUS  
AMD B650 SAM5  
ATX Memory  
DDR5 Memory  
slots 4 1xPCI-  
Express 4.0 16x  
2xPCI-Express  
5.0 16x 4xM.2  
1xHDMI  
1xDisplayPort  
4xUSB 2.0  
6xUSB 3.2  
2xUSB-C  
1xOptical S/PDIF  
1xRJ45 5xAudio  
port  
STRIXB650E-  
EGAMINGWIFI**

Modelis: STRIXB650E-EGAMINGWIFI

Gamintojas: ASUS

EAN: 4711081906209

Pateikta prekės informacija yra orientacinio pobūdžio. Techninės savybės, nuotraukos, aprašymai ir kaina gali keistis be išankstinio perspėjimo. Gamintojas ir pardavėjas neatsako už galimus duomenų neatitikimus ar tipografines klaidas. Prieš įsigyjant rekomenduojame pasitikrinti aktualią informaciją.

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**305.98€**

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Take your build from B-tier to S with the Strix B650E-E! PCIe 5.0 and DDR5 propel your rig into the future, and innovative Q-Design features make system setup a breeze. All of its perks are backed by a tenacious power solution, hefty heatsinks, and exclusive overclocking technologies to drive you to the next level with Ryzen 7000.

#### DIY-FRIENDLY FEATURES

##### **PCIe® SLOT Q-RELEASE**

A physical button unlocks the first PCIe slot's security latch with one press, greatly simplifying the process of detaching a PCIe card from the motherboard when it's time to upgrade to a new GPU or other compatible device.

##### **M.2 Q-LATCH**

The innovative Q-Latch makes it easy to install or remove an M.2 SSD without the need for specific tools. The design employs a simple locking mechanism to secure the drive and neatly eliminate traditional screws.

##### **CLEAR CMOS**

The Clear CMOS button quickly resets BIOS settings to factory default. It can also be used to reboot the PC if incorrect BIOS settings have been selected.

##### **BIOS FLASHBACK BUTTON**

BIOS FlashBack™ is a safe and simple way to update BIOS. Just drop the (UEFI) BIOS file onto a FAT32-formatted USB stick, plug it into the USB BIOS FlashBack port, and press the button. Updates can even be performed without having memory or a CPU installed.

## **Q-CODE LED PANEL**

The on-board LED panel shows 2-digit diagnostic codes, providing a valuable reference for troubleshooting common boot problems and hardware issues.

## **ALL-ROUND PERFORMANCE**

With its jacked up power solution, beefy VRM heatsinks, and incredible throughput to connected components, the ROG Strix B650E-E goes toe-to-toe with the greatest that Ryzen 7000 can offer.

Fully embracing the new standard, the Strix B650E-E offers abundant PCIe 5.0 support to give unfettered bandwidth to the fastest SSDs and graphics cards available. Both of the x16 expansion slots are Gen 5-ready, and are protected with SafeSlot retention brackets. Two of the onboard M.2 slots are geared for blistering 16 GB/s read and write speeds courtesy of their PCIe 5.0 interfaces, while the accompanying 4.0 pair deliver still-impressive 8 GB/s transfers. And all of the M.2 slots are covered with substantial heatsinks to dispatch the heat of next-gen drives.

Lightly-threaded tasks get fantastic uplift using AMD Precision Boost Overdrive (PBO), but all-core frequencies can be pushed higher via traditional overclocking. The Dynamic OC Switcher automatically engages PBO or your preferred settings based on the CPU current or temperature, giving you the best of both worlds. Core Flex and PBO Enhancement can also be deployed to work in tandem with the Dynamic OC Switcher and further bolster performance.

Core Flex empowers you to smash limits farther than ever before by letting you control current, power, and thermals in creative new ways. In its simplest form, you can let your system run unrestricted during lighter loads and set breakpoints to gradually reduce power consumption as temperature increases. But the system is extremely adaptable, supporting multiple user-controlled functions that can manipulate parameters independently so that you can bend CPU performance to your will.

## **PBO ENHANCEMENT**

AMD Precision Boost Overdrive (PBO) pushes the CPU current and voltage budget to opportunistically increase performance. By aggressively tuning the PBO parameters, AMD's algorithm can leverage the motherboard's robust power solution to ramp up performance even higher.

## **POWER ARCHITECTURE**

16 + 2 power stages rated to 70A each deliver ample current in order to drive Ryzen 7000 through any workload with ease.

## **ALLOY CHOKES AND DURABLE CAPACITORS**

Hi-end chokes and durable capacitors are engineered to resist extreme temperatures, enabling performance that exceeds industry standards.

## **EIGHT-LAYER PCB**

A multi-layered printed circuit board design quickly dissipates heat around the voltage regulators to improve overall system stability and provide the CPU with more overclocking headroom.

For those who want to fly past stock DDR5 speeds, the ROG Strix B650E-E is primed and ready for enthusiast-grade kits courtesy of vast AMD EXTended Profiles for Overclocking (EXPO) support. Seasoned veterans can further tweak performance via the extensive array of settings in the UEFI.

ASUS Enhanced Memory Profile (AEMP) is an exclusive firmware feature for PMIC-restricted memory modules. AEMP automatically detects the memory chips on your kit and then presents optimized profiles with higher frequency and tighter timings that you can effortlessly apply to unleash performance.

## **VRM HEATSINK ARRAY**

Covering the power solution are two thick heatsinks with strategic airflow channels for increased heat dissipation while powering high-performance Ryzen 7000 Series processors.

## **HIGH-CONDUCTIVITY THERMAL PADS**

High-quality thermal pads are utilized between power stages and heatsinks, helping to improve heat transfer and reduce VRM operating temperatures.

## **M.2 HEATSINKS**

Heatsinks cover every slot to help keep onboard NVME SSDs at optimal temperatures for consistent performance and reliability.

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## **CPU FAN HEADERS**

A dedicated pair of PWM/DC fan headers provides easy access to CPU coolers.

## **AIO PUMP FAN HEADER**

A dedicated PWM/DC header connects self-contained water-cooling setups.

## **4-PIN FAN HEADERS**

The Strix B650E-E features five fan headers, each supporting auto-detection of PWM or DC fans.

## **LEADING CONNECTIVITY**

Backing up its core performance, the ROG Strix B650E-E packs superfast WiFi and tethered networking, as well as immersive audio courtesy of its enhanced SupremeFX solution.

### **WiFi 6E**

Onboard WiFi 6E technology takes advantage of newly available spectrum in the 6 GHz band to provide up to seven 160 MHz channels for ultrafast throughput and better performance in dense wireless environments.

\*WiFi 6E availability and features are dependent on regulatory limitations and co-existence with 5 GHz WiFi.

### **Intel 2.5G Ethernet**

Low-latency gaming, speedy file transfers, and high-resolution video streaming are among the many perks of onboard Intel® 2.5 Gbps Ethernet.

## **SUPREMEFX**

ROG SupremeFX is a unique blend of hardware and software technologies that provide superior audio. The Strix B650E-E implementation features the ALC4080 codec for high-resolution playback up to 32-bit/384 kHz across all channels. Front-panel output is streamed through the integrated Savitech amplifier that can drive high-fidelity acoustics to a wide variety of speakers and headsets.

## **PLAY IN STYLE**

A black PCB and heatsinks match most hardware, and customizable RGB lighting furthers its flexibility. Pair the Strix B650E-E with other products from the diverse ROG ecosystem to create a

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fully customized gaming setup that reflects your personal style.

## **UNDENIABLY ROG STRIX**

Bold and elegant, the ROG Strix B650E-E bears a premium aesthetic similar to the Electro Punk peripheral series. Black shrouds cover the SSDs and chipset with contrasting powder-coated and brushed metal textures, and playful pink accents draw the gaze around the board. The I/O shroud is emblazoned with a split image of the ROG eye, the center of which can shine with a splash of customizable RGB.

## **OUTSHINE THE COMPETITION**

ROG Strix motherboards feature ASUS Aura technology, enabling full lighting control and a variety of presets for both onboard RGB LEDs and third-party accessories. Effects can be easily synced across compatible ROG graphics cards, monitors, keyboards, and mice to give your setup a unified look.

## **COOLER COMPATIBILITY**

The ROG Strix B650E-E bears the same mounting hole alignment as AM4 platforms, so it is backward compatible with many existing coolers, including all AIO offerings from ASUS and ROG.

## **THE ROG STRIX ECOSYSTEM AWAITS**

Level up your game with ROG Strix. Enjoy complementary aesthetics, control, and compatibility across AIO coolers, cases, peripherals, and much more. ROG offers more choices than any other brand.

## **SOFTWARE UTILITIES**

A myriad of ROG-exclusive tools put advanced system tuning and configuration at your fingertips.

## **TWO-WAY AI NOISE CANCELATION**

This utility leverages a massive deep-learning database to reduce over 5 million types of background noise from incoming or outgoing audio, helping ensure crystal-clear communication in games or calls.

## **AI NETWORKING**

GameFirst VI optimizes networking performance by allocating bandwidth in real time based on

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application usage scenarios and corresponding learning algorithms.

The renowned ROG UEFI (BIOS) provides everything you need to configure, tweak, and tune your rig. It offers intelligently simplified options for newcomers to PC DIY, as well as more comprehensive features for seasoned veterans.

When you're ready for a deeper dive, delve into the UEFI's Advanced mode and take complete control. Advanced mode enables full control over every aspect of the motherboard, and a built-in search function helps you quickly find the setting you need.

Designed to simplify setup, EZ mode presents vital settings and stats on a single page. With guided wizards, drag-and-drop functionality, and one-click application of important settings, your rig will be up and running in no time.

The dashboard-style control panel of AI Suite 3 lets you fine-tune your system with ease. Get the best balance between performance, cooling, stability, and efficiency via simple and intuitive interfaces.

The TurboV Processing Unit (TPU) is an intelligent onboard micro-controller that provides an array of system-tuning features, including the ability to fine-tune voltages, monitor system stats and adjust overclocking parameters.

The Digi+ voltage-regulator module (VRM) delivers real-time control over voltage droop, switching frequency and power-efficiency settings, allowing you to fine-tune CPU voltage regulation for ultimate stability and performance.

Modern processors feature per-core tuning, and the ASUS Turbo app makes use of this feature by letting you assign applications to specific processor cores, prioritizing computing power where it's needed most.

## **THIS CHANGES EVERYTHING.**

FROM THIS NEW PLATFORM, YOU CAN SEE THE FUTURE

Build your next rig with an AMD Ryzen™ 7000 Series processor and ROG Strix B650E-E Gaming WiFi

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to experience advanced performance. With up to 16 “Zen 4” cores and 32 threads, boost clocks of up to 5.7GHz, and 80MB cache, the AMD Ryzen™ 7000 Series keeps you ahead of the game.<sup>1</sup>

You’ll also gain access to new features for gamers with AMD Socket AM5, from the speed of DDR5 memory to the increased bandwidth of PCIe® 5.0. AMD Ryzen™ 7000 Series processors and AMD socket AM5 motherboards are unlocked for overclocking to personalize your experience. Gain even more performance when you overclock your DDR5 memory with AMD EXPO™ technology.<sup>2</sup>

Max boost for AMD Ryzen processors is the maximum frequency achievable by a single core on the processor running a bursty single-threaded workload. Max boost will vary based on several factors, including, but not limited to: thermal paste; system cooling; motherboard design and BIOS; the latest AMD chipset driver; and the latest OS updates. GD-150

Overclocking and/or undervolting AMD processors and memory, including without limitation, altering clock frequencies / multipliers or memory timing / voltage, to operate outside of AMD’s published specifications will void any applicable AMD product warranty, even when enabled via AMD hardware and/or software. This may also void warranties offered by the system manufacturer or retailer. Users assume all risks and liabilities that may arise out of overclocking and/or undervolting AMD processors, including, without limitation, failure of or damage to hardware, reduced system performance and/or data loss, corruption or vulnerability. GD-106

Summary: ASUS ROG STRIX B650E-E GAMING WIFI. Processor manufacturer: AMD, Processor socket: Socket AM5, Compatible processor series: AMD Ryzen 7000 Series. Supported memory types: DDR5-SDRAM, Maximum internal memory: 128 GB, Memory slots type: DIMM. Supported storage drive interfaces: M.2, SATA III, Supported storage drive types: HDD & SSD, RAID levels: 0, 1, 10. Ethernet interface type: 2.5 Gigabit Ethernet, Top Wi-Fi standard: Wi-Fi 6E (802.11ax), Wi-Fi standards: 802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax), Wi-Fi 6E.... Component for: PC, Motherboard form factor: ATX, Motherboard chipset family: AMD | Vendor Homepage: <https://rog.asus.com/motherboards/rog-strix/rog-strix-b650e-e-gaming-wifi-model/> | Audio chip: Realtek ALC4080 | Audio output channels: 7.1 | Component for: PC | Motherboard chipset: AMD B650 | Motherboard chipset family: AMD | Motherboard form factor: ATX | Power source type: ATX | Windows operating systems supported: Windows 10/Windows 11 x64 | Compatible processor series: AMD Ryzen 7000 Series | Processor manufacturer: AMD | Processor socket: Socket AM5 | Supported processor sockets: Socket AM5 | ECC compatibility: ECC & Non-ECC | Maximum internal memory: 128 | Memory channels: Dual-channel | Memory slots type: DIMM | Number of memory slots: 4 | Supported memory clock speed (max): 6400 | Supported memory clock speeds:

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4800/5000/5200/5400/5600/5800/6000/6200/6400 | Supported memory types: DDR5-SDRAM | Unbuffered memory: Yes | RAID levels: 0/1/10 | RAID support: Yes | Supported storage drive interfaces: M.2,SATA III | Supported storage drive types: HDD & SSD | Parallel processing technology support: Not supported | 12V power connector: Yes | ATX Power connector (24-pin): Yes | CPU fan connector: Yes | EPS power connector (8-pin): Yes | Front panel audio connector: Yes | Number of chassis fan connectors: 5 | Number of SATA III connectors: 4 | RGB LED pin header: Yes | Thunderbolt headers: 1 | 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 | DisplayPort version: 1.4 | DisplayPorts quantity: 1 | Ethernet LAN (RJ-45) ports: 1 | HDMI ports quantity: 1 | HDMI version: 2.1 | Headphone outputs: 1 | Line-in: Yes | Microphone in: Yes | S/PDIF out port: Yes | USB 2.0 ports quantity: 4 | USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity: 6 | USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity: 1 | USB 3.2 Gen 2x2 Type-C ports quantity: 1 | Bluetooth: Yes | Bluetooth version: 5.2 | Ethernet interface type: 2.5 Gigabit Ethernet | Ethernet LAN: Yes | Top Wi-Fi standard: Wi-Fi 6E (802.11ax) | Wi-Fi: Yes | Wi-Fi standards: 802.11a/802.11b/802.11g/Wi-Fi 4 (802.11n)/Wi-Fi 5 (802.11ac)/Wi-Fi 6 (802.11ax)/Wi-Fi 6E (802.11ax) | Number of M.2 (M) slots: 4 | PCI Express x16 (Gen 4.x) slots: 1 | PCI Express x16 (Gen 5.x) slots: 2 | BIOS memory size: 256 | BIOS type: UEFI AMI | Clear CMOS button: Yes | Package depth: 273 | Package height: 77 | Package weight: 2439 | Package width: 343 | Depth: 244 | Width: 305 | Cables included: SATA | User guide: Yes | Back-to-BIOS button: Yes | Model: ROG STRIX B650E-E GAMING WIFI | Units per Shipping Box: 1 | Unit Calculated Volume: 0.0077 | Unit Calculated Weight: 2.29

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