



**Mainboard ASUS
Intel Z890
LGA1851 ATX
Memory DDR5
Memory slots 4
3xPCI-Express
4.0 16x 1xPCI-
Express 5.0 16x
4xM.2 1xHDMI
1xDisplayPort
1xAudio-In
1xAudio-Out
1xMicrophone
4xUSB 2.0
2xUSB 3.0
1xUSB 3.1
1xUSB-C
w/Thunderbolt
1xRJ45
PRIMEZ890-**

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PWIFI



Modelis: PRIME Z890-P WIFI

Gamintojas: ASUS

EAN: 4711387754818

Prekės kodas: 13759

224.00€

ASUS PRIME series motherboards are expertly engineered to unleash the full potential of the latest Intel® Core™ Ultra Processors (Series 2). Boasting a robust power design, comprehensive cooling solutions and intelligent tuning options, the PRIME Z890-P WIFI motherboard provides users and PC DIY builders with a range of performance optimizations via intuitive software and firmware features. It's designed to be Advanced AI PC-ready, offering the power and connectivity needed for demanding AI applications.

Performance

AI Solutions

ASUS AI Solutions include AI Advisor as your technical expert with expertise in PC performance, AI Networking II for real-time bandwidth optimization and AI Cooling II for automated temperature control.

AI Advisor

ASUS AI Advisor allows users to explore the functionality and advanced features of ASUS motherboards in a simple and straightforward way.¹

AI Networking II

Optimized network performance, helping to ensure seamless connectivity and maximized WiFi 7 speeds.

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AI Cooling II

Optimized thermals and reduced noise via dynamic adjustment of fan speeds, based on CPU temperatures.

Performance

NPU Boost

The integrated NPU in Intel® Core™ Ultra Processors (Series 2) efficiently accelerates AI workflows — and NPU Boost lets you do more with it. This BIOS feature overclocks the NPU with just one click, increasing performance by up to 24%.⁴

Performance

Robust power design

Stable power is crucial for maximizing the performance of Intel® Core™ Ultra Processors (Series 2). The PRIME Z890-P WIFI is designed to meet the needs of high-core-count CPUs. It features 14(80A) + 1(80A) + 2(80A) + 1(80A) power stages that integrate high-side and low-side MOSFETs and drivers into packages rated for up to 80 amperes each. This configuration ensures optimal power delivery, efficiency, stability and performance for both current and future Intel® processors.

Enhanced Memory & Storage Performance

AEMP III for Ultimate DDR5 Performance

ASUS Enhanced Memory Profile III (AEMP III) is an advanced firmware feature that empowers users to achieve unparalleled memory performance with cutting-edge CUDIMM memory. Through a two-phase comprehensive tuning process, AEMP III first optimizes the clock driver and then the memory frequency. This results in the best balance between performance and stability, even at cutting-edge speeds of DDR5-7600 or higher.⁵

DIMM Fit

DIMM Fit is an ASUS-exclusive BIOS feature that precisely analyzes individual memory modules to optimize performance and pinpoint potential issues. This offers peak efficiency, compatibility, and system stability. Whether you are an overclocker seeking ultimate performance, a competitor pursuing the most responsive gameplay, or a content creator prioritizing rock-solid stability, DIMM Fit provides optimizations tailored to your needs and your hardware configuration.

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Four M.2 slots (up to 128Gbps)

The PRIME Z890-P WIFI offers a total of four M.2 slots, including one that supports data-transfer speeds of up to 128Gbps via PCIe 5.0, three that support 64Gbps via PCIe 4.0. This enables quicker boot-up and app load times with OS or application drives.⁶

Cooling

Cooler by design

The PRIME Z890-P WIFI motherboard is engineered with multiple onboard heatsinks and an array of hybrid fan headers to help ensure your rig stays cool and stable under intense workloads.

Cooling

Smart cooling precision

ASUS Fan Xpert 4

ASUS Fan Xpert 4 software offers comprehensive control over fans and AIO coolers. Auto-Tuning mode configures settings with one click, while Extreme Quiet mode reduces fan speeds for silent operation during light tasks. Controls are also available via the UEFI BIOS.

Cooler compatibility

ASUS AIO coolers offer robust performance, high overclocking potential, bold aesthetics and customizable functionality for new motherboards, empowering you to build your dream gaming rig.⁷

Flexibility

Empowering connections

The PRIME Z890-P WIFI motherboard offers a versatile range of connectivity, including support for WiFi 7, the latest version of PCI Express, while an arsenal of USB ports includes Type-C connections, and Thunderbolt™ 4 which expands compatibility and bandwidth even further.

WiFi 7

The next-gen WiFi 7 supports 160 MHz bandwidth in the 6 GHz band and 4096 QAM. Multi-Link Operation (MLO) ensures stable connections and low latency, supporting 2.4, 5, and 6 GHz bands for enhanced coverage and throughput.

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Thunderbolt™ 4 Type-C® ports

Thunderbolt™ 4 Type-C® port delivers up to 40Gbps of bidirectional bandwidth for the latest super-speed devices and drives. The port can be employed for up to one external 8K display, and PCIe bandwidth extends to up to 32Gbps.

PCIe 5.0 slot

The latest processors introduce PCIe 5.0 support, doubling data transfer speeds compared to PCIe 4.0, enhancing signal integrity, and providing backward-compatible CEM connectors and support for previous PCIe versions.

Customization

Personalization

The PRIME Z890-P WIFI enhances the user experience across the board, from simplifying BIOS setting adjustments to offering customizable RGB lighting controls for a uniquely personal system aesthetic.

UEFI BIOS

The UEFI interface delivers easy-to-use configuration options for PC beginners, and advanced features for veterans.

TurboV Core

Intuitive overclocking within Windows. No BIOS interface, no reboots. Simple and swift performance tuning at your fingertips.

ASUS GlideX

Enable seamless screen sharing and control across PCs, tablets, and smartphones via wired or wireless connections, supporting multiple platforms.

ASUS DriverHub

Simplify driver management with automatic detection, one-click installation and update for smooth, efficient system performance.

Armoury Crate

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Customize Aura Sync RGB and control ASUS devices. Includes product registration and updates.

Aura Sync

Complete RGB lighting control for enthusiast systems, ensuring seamless synchronization with compatible hardware.

Addressable Gen2 RGB headers

Three Addressable Gen2 headers detect LED counts on compatible RGB devices, automatically adjusting lighting effects accordingly.

Customization

DIY friendly

The PRIME Z890-P WIFI motherboard features EZ PC DIY innovations that simplify and speed up the PC building process, making DIY easy and convenient.

Q-Antenna

With Q-Antenna, attaching a WiFi antenna to your PC is now easy and fast. Instead of slowly rotating two fasteners until they finally lock in, they just snap into place. Less hassle, and more consistent performance.⁹

PCIe Slot Q-Release

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

M.2 Q-Latch

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

Q-LED Core

The Q-LED Core display produces color-coded lights during the Power-On Self-Test (POST) that can help you troubleshoot potential issues.

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Pre-mounted I/O shield

Our pre-installed I/O shield safeguards ports, simplifies the build process, increases functionality and enhances aesthetics for PC DIY enthusiasts.

BIOS FlashBack™

BIOS FlashBack™ simplifies BIOS updates. Just load the BIOS file onto a FAT32 USB stick, insert it into the BIOS FlashBack™ port, and press a button — no CPU or memory needed.

SafeSlot

PCIe 5.0 is twice as fast as PCIe 4.0. ASUS has adapted our SMT manufacturing for the faster SafeSlot, a reinforced metal sheath that ensures secure card installation and faster data speeds.

Availability of ASUS AI Advisor may vary by region.

The “Channel Switch” function requires pairing with an ASUS router. If not paired with an ASUS router, the channel change process can be performed in the “Router IP” section of the Traffic Monitor.

The Direction Finder is only compatible with connections in the 5 GHz and 6 GHz bands.

* This feature only supports Intel K series processors.

** The overclocking performance may vary depending on the CPU series and motherboard used.

*** Testing was conducted with an Intel Arrow Lake QS Q2HA Ultra 9 285K processor, ROG Maximus Z890 Extreme motherboard, GeForce RTX™ 4090 24GB graphics card, and XPG Lancer DDR5 memory modules (model AX5U6000C4016G).

Results may vary according to individual system specifications. Currently, only 2-DIMM configurations are supported. Results are based on a test with an Intel Core Ultra 9 285K processor and 2x16GB SK Hynix DDR5-6400 Clocked Unbuffered DIMM RAM, model HMC78AHBCA326N. Actual transmission speeds will be lower than the theoretical maximum speed.

Image(s) for reference only.

WiFi 7 features require an onboard WiFi chipset, WiFi AP, and WiFi 7-supported operating systems to support the corresponding features. The 6 GHz band may be unavailable in some regions/countries due to regulatory restrictions. Please visit the ASUS support website for more information.

Video(s) for reference only.

Summary: ASUS PRIME Z890-P WIFI. Processor manufacturer: Intel, Processor socket: LGA 1851 (Socket V1), Compatible processor series: Intel Core Ultra (Series 2). Supported memory types: DDR5-SDRAM, Maximum internal memory: 192 GB, Memory slots type: DIMM. Supported storage

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drive interfaces: M.2, SATA III, Supported storage drive types: HDD & SSD, RAID levels: 0, 1, 5, 10. Ethernet interface type: 2.5 Gigabit Ethernet, Top Wi-Fi standard: Wi-Fi 7 (802.11be), 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: Intel | Vendor Homepage: <https://www.asus.com/motherboards-components/motherboards/prime/prime-z890-p-wifi/> | Audio output channels: 7.1 | Component for: PC | Cooling type: Passive | Motherboard chipset: Intel Z890 | Motherboard chipset family: Intel | Motherboard form factor: ATX | Power source type: ATX | Product colour: Black | Windows operating systems supported: Windows 10/Windows 11 | Compatible processor series: Intel Core Ultra (Series 2) | Processor manufacturer: Intel | Processor socket: LGA 1851 (Socket V1) | ECC compatibility: Non-ECC | Maximum internal memory: 192 | Memory channels: Dual-channel | Memory slots type: DIMM | Number of memory slots: 4 | Supported memory clock speed (max): 7600 | Supported memory types: DDR5-SDRAM | Unbuffered memory: Yes | Number of HDDs supported: 4 | Number of storage drives supported: 8 | RAID levels: 0/1/10/5 | RAID support: Yes | Supported storage drive interfaces: M.2,SATA III | Supported storage drive types: HDD & SSD | On-board graphics card: No | 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: 4 | Number of COM connectors: 1 | Number of SATA III connectors: 4 | RGB LED pin header: Yes | S/PDIF out connector: Yes | Thunderbolt headers: 1 | TPM connector: Yes | USB 2.0 connectors: 2 | USB 3.2 Gen 1 (3.1 Gen 1) connectors: 2 | 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 | USB 2.0 ports quantity: 4 | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity: 2 | USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity: 1 | USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity: 1 | Bluetooth: Yes | Bluetooth version: 5.4 | Ethernet interface type: 2.5 Gigabit Ethernet | Ethernet LAN: Yes | Top Wi-Fi standard: Wi-Fi 7 (802.11be) | 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)/Wi-Fi 7 (802.11be) | Number of M.2 (M) slots: 4 | PCI Express x16 (Gen 4.x) slots: 3 | PCI Express x16 (Gen 5.x) slots: 1 | BIOS memory size: 256 | BIOS type: UEFI AMI | Package depth: 273 | Package height: 68 | Package weight: 1893 | Package width: 353 | Depth: 244 | Width: 305 | Cables included: SATA | Back-to-BIOS button: Yes | Quick installation guide: Yes | Model: PRIME Z890-P WIFI | Units per Shipping Box: 5 | Unit Calculated Volume: 0.008892 | Unit Calculated Weight: 2.02

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