ASUS ROG STRIX Z890-A GAMING WIFI Intel Z890 LGA 1851 (Socket V1) ATX

Model: 90MB1I90-M0EAY0

Manufacturer: ASUS

EAN: 4711387758830

Product Code: 1417461

R6,497

With Thunderbolt™ 4, PCIe® 5.0, and Polymo lighting, the ROG Strix Z890-A delivers lightning-fast data transfers, exceptional connectivity and a customizable aesthetic that can be subtle or bold. This motherboard delivers the power and speed essential for elite gaming and the demands of advanced AI PC applications.

ASUS AI INTELLIGENCE

ASUS AI ADVISOR

Using AI technology to understand natural-language questions or scenario descriptions, ASUS AI Advisor allows users to explore the functionality and advanced features of ASUS motherboards in a

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simple and straightforward way.

* Availability of ASUS AI Advisor may vary by region.

AI OVERCLOCKING

ASUS AI Overclocking profiles the CPU and cooling to predict the optimal configuration and push the system to its limits.

AI COOLING II

Balance the thermals and acoustics of any build with a single click.

AI NETWORKING II

AI Networking II combines intelligent technologies to continuously optimize network performance, provide trustworthy and seamless connectivity, and unleash the full speed of WiFi 7*.

*Features may vary by model.

Performance

OVERCLOCKING

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%.

* 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).

Performance

MEMORY

DDR5 DOMINATION

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Enhanced signal routing can push enthusiast-grade kits well beyond the 8 GT/s threshold on the Strix Z890-A.

DIMM FIT

DIMM Fit is an ASUS-exclusive BIOS feature that precisely analyzes individual memory modules to optimize performance and pinpoint potential issues.

AEMP III

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.

DIMM FLEX

DIMM Flex provides enthusiasts with a powerful new way to overclock their DDR5 memory modules.

Power solution

ROG STRIX ULTIMATE POWER DESIGN
16(90A)+1(90A)+2(90A)+2(80A)
Power Stages

Performance
COOLING

M.2 BACKPLATE

An integrated backplate helps ensure that high-performance drives can deliver peak performance, even when airflow is restricted.

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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VRM HEATSINK ARRAY

Two thick heatsinks covering the power delivery section provide strategic airflow channels for increased heat dissipation while empowering high-performance Intel® Core™ Ultra Processors (Series 2)

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 Z890-A features five chassis fan headers, each supporting auto-detection of PWM or DC fans.

Leading Connectivity

WIFI 7

The revolutionary WiFi 7 is up to 4.8X times faster than standard WiFi 6*, thanks to tech like 320 MHz channels** on the 6GHz band and 4K QAM*. Multi-Link Operation (MLO) provides a more stable WiFi connection and lower latency, unlocking the realms of the unknown in gaming, streaming and industrial IoT.
* WiFi 7 features require onboard WiFi chipset, WiFi AP, and WiFi 7-supported operating systems to support the corresponding features. 320 MHz channels in the 6 GHz band may be unavailable in some regions/countries due to regulatory restrictions.
** Specifications vary by model.

ASUS WiFi Q-Antenna

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Dual transceivers support the 2.4, 5 and 6 GHz bands to enable faster throughput, with directional sensitivity to improve signal quality and cover greater distances.
Disclaimer: The availability of WiFi 7 160 GHz and 320 GHz varies according to regional regulations.

Wireless Signal Reception Improvement
Versus previous-generation antenna

Intel 2.5Gb Ethernet

Onboard Intel® 2.5Gb Ethernet gives your wired connection a boost, with speeds that are 2.5 times faster than standard Ethernet connections for speedy file transfers, low-latency gaming, and high-res video streaming.

PCIE 5.0

The Strix Z890-A offers end-to-end PCIe 5.0 support, and the topmost x16 expansion slot is protected with a SafeSlot retention bracket to bear the weight of the latest graphics cards. One onboard M.2 slot is rated for blistering read and write speeds up to 16 GB/s, while the remainder can deliver still-impressive 8 GB/s transfers. And every M.2 slot is covered with substantial heatsinks to dispatch the heat of next-gen drives.

TWO THUNDERBOLT 4 TYPE-C® PORTS

Each port delivers up to 40 Gbps of bidirectional bandwidth for the latest super-speed devices and drives. Both ports can be employed for up to two external 4K displays, and PCIe bandwidth extends to up to 32 Gbps.

USB WATTAGE WATCHER

USB Wattage Watcher allows users to monitor the current wattage delivered to a device connected to the USB 10Gbps Type-C® rear I/O port. With USB Wattage Watcher, users can glance at their device's charging wattage in real-time and check on their device’s Fast-Charging status.

DOLBY ATMOS

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ROG and Dolby® have partnered to bring superior gaming audio quality to users. Dolby Atmos expands on traditional surround sound systems by adding height channels, which enables immersive three-dimensional audio to be perceived from above, below and around the listener.

SupremeFX

ROG SupremeFX is a unique blend of hardware and software technologies that provide superior audio. The Strix Z890-A 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.

A specially designed circuit separation reduces electromagnetic interference from the motherboard and attached devices for cleaner audio.

The integrated Hi-Fi Savitech amplifier holds up its end of the signal path with imperceptible levels of distortion at -90dB THD+N and a signal-to-noise ratio of 110dB for extremely clean output.

Instead of the conventional high definition audio (HDA) interface, the ALC4080 codec uses a USB interface to deliver studio-level sound reaching up to 32-bit 384 kHz audio resolution.

A metal cover protects against electromagnetic interference, preserving the integrity of audio signals to ensure the best sound quality.

High-quality components produce a warmer, more natural sound with exceptional clarity and fidelity.

UNDENIABLY ROG STRIX

The ROG Strix Z890-A features a sleek white surface for a contemporary and stylish appearance that fits effortlessly into most system builds. Metallic heatsinks complement the clean design, while subtle Polymo lighting on the I/O shroud lets you choose between a refined, minimalist look or a vibrant, eye-catching display.

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

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compatible ROG graphics cards, monitors, keyboards, and mice to give your setup a unified look.

Dare to Be Green

We at the Republic of Gamers are on a mission to create a sustainable future where all gamers can flourish on the planet we call home.

Every step counts, and as part of ROG’s commitment to creating a more sustainable future, ROG has begun to utilize post-consumer recycled (PCR) plastic and paper materials certified by the Forest Stewardship Council (FSC™) in the packaging of motherboard.

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