

ASUS PRO WS Z890-ACE SE Intel Z890 LGA 1851 (Socket V1) ATX

Model: 90MB1JC0-M0EAY0

Manufacturer: ASUS

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Product Code: 1693521

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The Pro WS Z890-ACE SE empowers workstation users of all levels by maximizing the performance of the latest Intel® Core™ Ultra Processor (Series 2) processors with 16+1+2+2 team power stages, DDR5 slots, PCIe® 5.0 and lightning-fast connectivity including Thunderbolt™ 4 port, 10Gb and 2.5Gb Ethernet.

The workstation motherboard is engineered to support dual graphics cards, making it an ideal choice for content creation, AI and deep learning, and IT management.

Thunderbolt™ Connectivity

The Pro WS Z890-ACE SE features a Thunderbolt™ 4 port, offering high-speed data transfers up to 40Gbps. This allows large files and datasets to be transferred in seconds, boosting productivity for

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workstation users, AI and deep learning experts, and IT managers. Thunderbolt™ 4 also supports multiple 4K displays or a single 8K display for clear and smooth visuals, essential for professional applications. Its strong compatibility with existing Thunderbolt™ and USB devices simplifies connectivity and management.

PCIe 5.0 Support

The Pro WS Z890-ACE SE offers PCIe 5.0 support to give unfettered bandwidth to the fastest SSDs and graphics cards available.

PCIe 5.0 Expansion Slots

Both of the x16 expansion slots are PCIe 5.0, offering incredible speeds of up to 64 GB/s for compatible devices. To bear the brunt of massive graphics cards, they are also protected with SafeSlot retention brackets, and the both slots can be released easily via Q-Release Slim.

Remote Control Solution

Onboard BMC

The Pro WS Z890-ACE SE workstation motherboard features compatibility with BMC connections, and it is bundled with ASUS Control Center Express software to provide comprehensive in-band and out-of-band management features for businesses and industries.

ASUS Control Center Express

A dedicated chipset heatsink draws heat away to maintain optimum operating temperatures, and it comes with an active fan to enhance thermal efficiency.

USB Port Management

Enable or disable the USB port, or set it to Read Only to prevent data leaks.

Software Blacklist

For added security, a software blacklist is available to help prevent the use of high-risk applications.

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Registry Editor On/Off

Remotely disable the Registry Editor on client devices to prevent unauthorized changes to system configurations.

The Core of Your Powerful Workstation

Designed to meet the needs of high-core-count CPUs, the Pro WS Z890-ACE SE features 16(90A)+1(90A)+2(90A)+2(80A) power stages that integrate high-side and low-side MOSFETs and drivers into packages rated for up to 90 amps each. This configuration ensures optimal power delivery, efficiency, stability and performance for new Intel® Core™ Ultra Processors (Series 2).

Eight-Layer PCB Design

This enhances quick heat dissipation around the voltage regulators for enhanced stability and overclocking.

ProCool II Connectors

These are built to tight specifications to ensure flush contact with PSU power lines. The resulting lower impedance helps to prevent hotspots and connector failure.

Superior Chokes & Capacitors

These are engineered to resist extreme temperatures, providing a higher level of performance than the industry standard.

Digi+ VRM Control

The ASUS Digi+ voltage-regulator module (VRM) is one of the finest in the industry and ensures ultra-smooth power delivery to the CPU.

Performance Boost

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NPU Boost

The integrated Neural Processing Unit 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%.1

Memory

The Pro WS Z890-ACE SE enhances DDR5 performance by providing overclocking options that would otherwise be locked, whether you are dealing with high-speed or entry-level memory modules.

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.

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. 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 DDR5-8000 or higher.2

Intelligent AI Solutions

AI Overclocking

Maximized CPU performance and predictions for ideal CPU and cooling settings push your system to its limits.

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AI Cooling II

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

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 simple and straightforward way.3

Easy PC DIY

PCIe® Slot Q-Release Slim

The new design of Q-release Slim allows users to remove the graphics card by tilting the card in its slot. This design also keeps the original method of removing the graphics card by pushing down on the retention clip.
Step1: Firmly grasp the graphics card
Step2: Slightly tile the card while pulling upward4

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.

ASUS DriverHub

ASUS DriverHub streamlines the installation and management of ASUS drivers and utilities to keep your hardware up-to-date and perform optimally. This standalone application automatically detects current driver versions and presents available updates in a list view. Users are invited to install ASUS DriverHub after OS installation.

Four Onboard M.2 Slots

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The Pro WS Z890-ACE SE features one PCIe 5.0 M.2 slot and three PCIe 4.0 M.2 slots to enjoy the fastest data transfers of up to 128 Gbps, and all M.2 slots support NVMe RAID configurations to take advantage of the latest available speeds.5

24/7 Reliability

Optimized for 24/7 operation, the Pro WS Z890-ACE SE motherboard is tested to work at up to 45°C and 80% humidity, ensuring it can handle diverse operating environments.

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