

ASUS PRO WS W790E-SAGE SE Intel W790 LGA 4677 (Socket E) EEB

Model: 90MB1C20-M0EAY0

Manufacturer: ASUS

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Product Code: 1601297

R29,372

Performance, Productivity, Proven

The Pro WS W790 series workstation motherboard is deftly tailored for creative professionals, developers and engineers, unleashing the dominate performance of the latest Intel Xeon processors, with CPU and memory overclocking capability. Featuring an optimized memory trace layout, advanced power stage design, server-grade IPMI remote management, and ultrafast PCIe 5.0 and networking connectivity, Pro WS W790 series melds no-compromise engineering with incredible aesthetics.

ASUS W790 motherboards go above and beyond the ordinary with a painstakingly cultivated collection of hardware validations to help ensure that your workstation build supports a wide variety

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of memory, cooler, chassis, PSU and other devices.

FUNCTION-FIRST

AESTHETICS

Low-profile professionalism

With metallic black aluminum extrusions, stainless steel black mesh with highlighted details, and a transparent smoky gray I/O cover, Pro WS W790 series presents a professional, low-profile look for content creators.

Multi-GPU support

Pro WS W790E-SAGE SE features seven PCIe® 5.0 x16 slots for high-powered graphics cards, enabling enhanced performance for professional design, modeling and simulation, and rendering applications.

8-pin and 6-pin power connectors

Additional PCIe 8-pin and 6-pin power connectors can add power output stability when creators and developers use many graphic cards onboard.

Reliability with supreme memory overclocking

The Pro WS W790E-SAGE SE supports 8-channel 1DPC DDR5 RDIMM ECC memory, allowing automatically to detect and correct data corruption, reducing the chance of system crashes. Being infused with deliberate memory trace layout, this motherboard enables DDR5 memory overclocking with maxed-out speeds to provide better memory performance for a diverse range of workloads.

ULTRAFAST CONNECTIVITY TO POWER CREATIVITY

Three onboard M.2 22110 slots on the Pro WS W790E-SAGE SE, two wired for PCIe 5.0 and one for PCIe 4.0, make it easy to install an initial set of drives. Creators working with massive video files can RAID together multiple NVMe devices for massive I/O bandwidth and seamless playback in their editing bays. All these three M.2 rest under dedicated heatsinks to prevent SSD throttling under heavy loads and comes with ASUS Q-Latch.

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More storage

To connect even more high-speed storage, onboard SlimSAS slots let you connect industrial SSDs — not to mention server and networking equipment — through the fast PCIe 4.0 interface.

Front-panel connector

The front panel USB 3.2 Gen 2 connector is ready for next-gen PC cases and devices.

SERVER-GRADE REMOTE MANAGEMENT

BMC remote management

An integrated BMC (Baseboard Management Controller) is a key feature for workstations. It uses a 1G Realtek controller, with one 1G port dedicated to the BMC to provide the intelligence for its IPMI architecture. The BMC manages the interface between system-management software and platform hardware. Administrators can remotely communicate with the BMC to take some corrective actions — such as resetting or power cycling a system.

ASUS Control Center Express

The Pro WS W790E-SAGE SE comes with ASUS Control Center Express - a real-time IT monitoring and management software designed for business that improves productivity and enhances security, helping prevent unauthorized access and data leaks.

THOROUGH THERMAL DESIGN

Chipset heatsink

A dedicated and beefy chipset heatsink draws heat away to maintain optimum operating temperatures.

M.2 heatsinks

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Three M.2 slots are covered by heatsinks to combat temperature-induced throttling that can affect performance during heavy, sustained storage loads. M.2 backplate blocks on select slots go even further to ensure that you get peak performance from your next-gen drives.

DIY FRIENDLY

Pre-mounted I/O shield

The patented I/O shield is finished in sleek matte black and comes pre-mounted for easy installation on the motherboard and is designed to allow air flow to keep the heat away from the board.

BIOS Flashback™

Users can place a BIOS file onto a FAT32-formatted USB drive and simply plug it into the USB BIOS FlashBack™ port and press a button to update the (UEFI) BIOS. Updates can be made even if memory or CPU aren't present.

WORK WITH FUN

Immersive Audio experience

The Realtek S1220A 7.1 audio codec features high quality 120 dB SNR stereo playback output and 113 dB SNR recording input to offer pristine audio quality and is supported by EMI shielding and separate PCB layers for the left and right channels to maintain signal integrity.

Power pre-regulator

Reduces power-input noise to ensure consistent performance.

Audio shielding

Separates analog/digital signal domains, significantly reducing multi-lateral interference.

Integrated amplifier

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Capable of driving high-impedance headphones, without rolling-off high or low frequencies.

Separate layer for left and right tracks

Ensures minimal crosstalk between audio paths.

De-pop circuit

Reduces start-up popping noise to all audio outputs.

Premium audio capacitors

Premium parts provide an immersive sound signature, with exceptional fidelity.

TRUSTED STABILITY FOR RELIABILITY

Solid compatibility validation

The ASUS Pro WS W790 series has been extensively tested and validated under various environments and applications and support for the latest technologies with solid QVL lists for compatibility and reliability.

Protect your graphics cards

SafeSlot is a PCIe® slot reengineered by ASUS to provide optimized attachment and shearing resistance. Manufactured in a single step using a new insert-molding process, SafeSlot fortifies the slot with metal for enhanced strength and durability.

24/7 reliability

Optimized for around-the-clock operations, The ASUS Pro WS W790 series is tested under temperatures of up to 45° C and humidity of up to 80% in order to ensure it can thrive in different environments.

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