


# ASUS PRO WS WRX90E-SAGE SE AMD WRX90 Socket sTR5 EEB

Model: 90MB1FW0-M0EAY0

Manufacturer: ASUS

EAN: 4711387441145

Product Code: 1738521

## R34,093

**AMD sTR5 EEB workstation motherboard, 7 PCIe 5.0 x16 slots, multi-GPU support, robust 32+3+3+3 power-stage design, CPU and memory overclocking ready, 4 PCIe 5.0 M.2 slots, dual 10 Gb LAN, PCIe Q-Release Slim**

**ULTRAFAST CONNECTIVITY**

**Multi-GPU Support**

The Pro WS WRX90E-SAGE SE motherboard features seven PCIe 5.0 x16 slots that provide flexible system configurability and expandability. With high-powered graphics cards, it can bring enhanced performance in modelling, simulation and rendering applications.

**ULTRAFAST CONNECTIVITY**

**Ultrafast Networking**

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## Intel® X710-AT2 dual 10 Gb Ethernet

Featuring dual onboard 10G LAN ports powered by the cutting-edge Intel® X710-AT2 Ethernet controller, the Pro WS WRX90E-SAGE SE makes short work of multi-terabyte transfers and provides server-grade connectivity with low-latency.

## 1 Gb Ethernet Dedicated to BMC

The Pro WS WRX90E-SAGE SE features an Ethernet port to provide fast data transfers simultaneously for 1 Gbps internet streaming to the onboard baseboard management controller.

**Ultrafast Networking**

## Embrace Next-Generation USB4®

The USB Type-C port in the rear offers a DisplayPort™ alt mode with support for up to 8K resolution at 60 Hz, providing great compatibility for Type-C monitors and portable displays which are getting popular among creators.
* The MiniDP In port at the back panel needs to be connected to a discrete graphics card via the bundled MiniDP to DP cable.

**High Capacity Storage**

## M.2 PCIe 5.0 slots

The Pro WS WRX90E-SAGE SE includes up to four onboard M.2 slots. Users working with massive files can RAID together multiple NVMe devices for massive I/O bandwidth and speedy data transfers.

## SlimSAS slot

The Pro WS WRX90E-SAGE SE motherboard also features two SlimSAS ports for connecting industral SSD drives, servers and networking equipment.

## CPU AND MEMORY OVERCLOCKING READY

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For AMD TR5 series workstations, we offer CPU and DRAM overclocking options. To fully leverage the performance of these processors, ASUS has incorporated an innovative dual PSU design on the Pro WS WRX90E-SAGE SE motherboard. Along with robust power delivery and advanced cooling modules, this motherboard exhibits enhanced stability during overclocking. Hardware switches and optimized BIOS options provide overclocking enthusiasts with greater convenience when pushing their systems to the limit. You may further boost your memory performance by enabling EXPO settings. The comprehensive synergy of EXPO and ECC R-DIMM further combines exceptional performance with outstanding stability, setting a new standard for workstation computing.

## Power Stages in VRM Area

The Pro WS WRX90E-SAGE SE voltage regulator module setup is comprised of (16*2)+3+3+3 power stages, delivering the power and efficiency that the latest AMD Ryzen™ Threadripper™ PRO 7000 WX-Series processors demand, with stability for extreme overclocking.

## Active VRM Cooling Solutions

The extruded aluminum heatsinks on the MOSFETs and chokes contain active cooling to greatly enhance thermal efficiency.

## ProCool II Connectors

ProCool II connectors ensure a snug and reliable connection to the 12V CPU input. This second generation features improved heat dissipation and a metal shroud.

## Onboard PCIe Power Connectors

Two additional 8-pin PCIe cable connectors built into the motherboard can ensure power output stability when multiple graphic cards need to be installed.

## ECC R-DIMM Memory Support

The Pro WS WRX90E-SAGE SE motherboard boasts a robust design featuring eight R-DIMM DDR5 memory module slots with ECC support, to improve the prevention of system crashes and data

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corruption, thereby ensuring that a workstation remains reliable and responsive for professional demands.

## ASUS Control Center Express

The Pro WS WRX90E-SAGE SE comes with ASUS Control Center Express, real-time IT monitoring and management software designed for business that improves productivity and enhances security and can help prevent unauthorized access and data leaks.

**THOROUGH THERMAL DESIGN**

## Chipset Cooling

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

## 10 Gb LAN Cooling

An optimally located and extended heatsink on the 10 Gb Ethernet controller ensures stable high-speed networking performance.

## M.2 Heatsinks with Active Fan

An active fan provides an additional cooling method to M.2 slots. All four M.2 slots come with large heatsinks to keep NVMe storage at the optimal operating temperature for consistent performance and reliability. M.2 thermal pads on select slots go even further to ensure peak performance for next-gen drives.

**COMPREHENSIVE FAN CONTROLS**

## Thorough and Flexible Way to Adjust the Fans

The Pro WS WRX90E-SAGE SE offers advanced fan control, configurable via an IPMI web UI, Q-FAN in the UEFI BIOS*, or Fan Xpert 4 in Armoury Crate for Windows*
*Set BMC_SW to disabled to control fans via this method.

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## Multiple Temperature Source

Each header can be connected to a 3A-12V high speed fan and set to monitor and react to three user-configurable thermal sensors for workload-based cooling. All settings can be easily managed by Fan Xpert 4, UEFI and IPMI web interfaces.

**INNOVATIVE DIY DESIGN AND ROBUST RELIABILITY**

## PCIe 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.

**EZ DIY Design**

**SafeSlot & SafeDIMM**

PCIe 5.0 is 2x faster than PCIe 4.0, so ASUS adapted its SMT manufacturing process to ensure the highest data speeds for its SafeSlot design. SafeSlot is a reinforced metal sheath added to a PCIe slot to keep an expansion card firmly installed. Meanwhile, strong ASUS SafeDIMM sheathes support and protect memory modules on ASUS Pro series workstation motherboards, empowering users to insert modules with speed, accuracy and confidence.

**24/7 Reliability**

**Built for around-the-clock operation**

Optimized for 24/7 operation, the Pro WS WRX90E-SAGE SE WIFI motherboard is tested to work at up to 45°C and 80% humidity, ensuring it can handle diverse operating environments.

## Built for Firm Protection

The back-plate on the back of the motherboard provides protection for adjacent electrical components and circuits.

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