



ASUS RS500A- E12-RS4U Socket SP5 Rack (1U) Black, Silver



Model: 90SF02J1-M000R0

Manufacturer: ASUS

EAN: 4711387030448

Product Code: 325798

R45,489

PCIe 5.0 Ready

Faster storage, graphics and networking capabilities

PCI Express® (PCIe®) 5.0 delivers 32GT/s bandwidth, which is twice the speed of PCIe 4.0, and offers lower power consumption, better land scalability and backwards compatibility. ASUS servers are PCIe 5.0 ready with scalability design to satisfy the increasing workloads for modern data center.

AMD EPYC™ 9004 Series Processors

The 9004 Series EPYC CPUs amplifies the AMD history of x86 architecture innovations and record-breaking performance with next generation 5nm technology as well as introducing support for high performant DDR5 DIMMs and fast PCIe® Gen 5 I/O. EPYC 9004 CPUs support 12 memory channels

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with 2 DIMMs/channel capability, delivering the resources needed for memory hungry AI, ML, HPC, and large in-memory computations.

World Records Leadership

ASUS holds the most amount of records in dual-socket (2P) and single-socket (1P) on SPEC CPU 2017 benchmark and dominate the computing performance. These top performance results provide a useful insight into compute-intensive workloads on different computer systems, enabling our customers to reduce complexity, tackle challenging workloads and accelerate system validations.

ASUS servers feature Performance Boost technology to achieve the best server performance and agility by tuning servers to match the requirements of workloads, letting you gain greater control of your server environment. This technology improves workload throughput by maximizing processor frequency and boost power, ideal for timesensitive applications such as financial services or data center operations.

Core Optimizer

Maximizes the processor frequency in multi-core operations, avoiding frequency shifting for reduced latency.

Engine Boost

Automatic power acceleration with an innovative voltage design to increase server overall performance.

Workload Presets

Preconfigured BIOS server profiles based on workloads and benchmarks for improved performance and efficiency.

ASUS select servers achieved most power efficiency positions on the SPEC Power benchmark for energy efficiency and demonstrate to customers how they can achieve faster deployments and higher energy efficiency for their IT infrastructure.

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ASUS Power Balancer

Adjust overall loading automatically based on real-time monitoring to decrease overall power consumption for Improved efficiency and cost/performance optimization.

Thermal Radar 2.0

Features intelligent fan-curve adjustments to fit the real-time server usage patterns and lower fan power consumption.

Scalable Storage Solution

This server features scalable storage solutions to support maximum performance for data center flexibility, and enable industry-standard SAS/SATA/NVMe interfacing through Broadcom Tri-Mode RAID adapters for increased connectivity and security.

Accelerating performance for AI workloads

Up to two single-slot GPUs

This server features multiple PCIe 5.0 slots to meet the demands of AI and high-performance computing (HPC) workloads, including supporting up to two single-slot active or passive GPUs, and Xilinx Alveo accelerators. The scalable configurations in one 1U system provide optimized acceleration for workloads across cloud and on-premises data centers, and for hybrid cloud environments in financial computing, machine learning, computational storage, and data search and analytics.

* The total number of NVMe drives installed will affect the total number of GPUs that can be installed.

* FPGA Xilinx verification is available on request.

* Refer to GPU compatible list by models.

NVIDIA Omniverse

3D design collaboration and simulation

ASUS solutions for Omniverse give your organization a comprehensive package for Omniverse Enterprise. The diverse portfolio allows us to tailor a package to be fully compatible with your design environment and needs. As our long-term partnership with NVIDIA and ISV certifications, we're fully

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invested in the Omniverse ecosystem and ready to help our partners develop new segments on this exciting platform.

Server-management Solution

Remote server management

ASUS ASMB11-iKVM is the latest server-management solution from ASUS, built upon the ASPEED 2600 chipset running on the latest AMI MegaRAC SP-X. The module provides various interfaces to enable out-of-band server management through WebGUI, Intelligent Platform Management Interface (IPMI) and Redfish® API.

Enhanced Security

Hardware Root-of-Trust Solution

Detect, recover, boot and protect

ASUS servers integrate PFR FPGA as the platform Root-of-Trust solution for firmware resiliency to prevent from hackers from gaining access to infrastructure. ASUS security solutions are fully compliant with the 2018 National Institute of Standards and Technology (NIST) SP 800 193 specification.

* Platform Firmware Resilience (PFR) module must be specified at time of purchase and is factory-fitted. It is not for sale separately.

Trusted Platform Module 2.0

ASUS servers also include support Trusted Platform Module 2.0 (TPM 2.0) to secure hardware through integrated cryptographic keys and offer regular firmware update for vulnerabilities.

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