

1U 2U Mainstream

Versatile Servers for Financial, Web Hosting, and SMB Applications



A+ Server AS -1015A-MT



A+ Server AS -2015A-TR

When you need efficient rackmount servers for everyday workloads, look no further than the Supermicro Mainstream systems. We include the most important enterprise features for versatility while simplifying the design for efficiency. Powered by a single AMD EPYC™ 4000 Series CPU, you get the enterprise-grade computing that up to 16 AMD ‘Zen 4’ cores have to offer, plus the capability to augment the server’s I/O capacity with high-speed networks, accelerate AI, or propel virtual desktop environments with a full-height, full-length GPU accelerator.

Servers Designed for High Value

Our Mainstream Systems were designed to meet the needs of financial applications, small- and medium-sized businesses, web hosting and colocation facilities, and remote and branch office environments. The high performance of the AMD EPYC 4005 Series delivers the performance you need for many applications, and Mainstream Systems brings that power to life without breaking the bank. Simplified designs, including a single high-efficiency power supply, and built-in Gigabit Ethernet connectivity gives this server the best performance per dollar at an affordable price. Use this server to propel workloads including:

- **Financial applications** that need clock rates up to 5.7 GHz for low-latency operations
- **Internet infrastructure** including security appliances, name servers, and mail servers

Mainstream Server Design

Efficient and practical rackmount servers ready to tackle everyday computing tasks with:

- Single AMD EPYC™ 4005/4004 Series processor with up to 16 cores and 32 threads and 170W TDP
- Up to 192 GB DDR5-5200 ECC or non-ECC memory
- Two M.2 NVMe drive slots
- Up to two 2.5" internal drive bays (1U) or eight 3.5" front-panel-accessible drives (2U)
- Up to two PCIe 5.0 expansion slots
- Dual Gigabit Ethernet LAN ports
- High-efficiency power supplies

- **Web and application hosting** that supports customers with their digital transformation using dedicated hosting
- **Software-defined storage** with high-capacity front-panel, hot-swap 3.5" drives and redundant power supplies for high availability
- **Virtual private servers** that can give service-provider customers a dedicated core per virtual machine, up to 16 customers on a single server
- **Business applications** including Microsoft® SharePoint and Microsoft SQL Server that support basic business operations, file sharing, and collaborative workloads
- **Virtual desktop infrastructure** located close to users, with responsive graphical interfaces accelerated with PCIe 5.0 GPUs
- **AI inferencing** at remote locations, propelled by GPU accelerators such as the NVIDIA® A4000



Powered AMD EPYC 4005 Series Processors

The AMD EPYC 4005 Series delivers high performance at an affordable price. They leverage AMD’s hybrid, multi-chip architecture to deliver a series with from 4 to 16 cores, and a thermal design that enables boost frequencies up to 5.7 GHz. With one or two eight-core ‘Zen 4’ CPU dies, this processor features a matching I/O die tailored to the needs of small

businesses, offering balanced performance at the entry level, while not sacrificing essential features such as the built-in AMD Secure Processor or the choice of AMD 3D V-Cache™ technology for L3 cache sizes up to 128 MB per CPU. Whether you prize overall system price or cost per core, the processor's attractive price is designed to help you deploy high-value, essential server solutions for your growing business. Choosing the EPYC 4004 Series gives you a fast and practical solution that is tested and validated with the leading server operating systems, so your systems can run the same software as AMD's high-end server processors. With a fixed configuration 1U server option available, you can deploy AMD EPYC processor-powered servers in your data center with a fast time to value.

Open Management

Regardless of your organization's management approach, our open management APIs and tools are ready to support you. In addition to a dedicated IPMI port, and a Web IPMI interface Supermicro® Server Manager and Supermicro Update Manager software helps you configure, maintain, and monitor all of your systems. If you plan to deploy large numbers of our 1U Mainstream Servers, your DevOps teams can create their own tools using industry-standard Redfish® APIs automate deployment and management to exactly meet the needs of your organization.



H13 Generation	AS -1015A-MT	AS -1015A-MT-7950X-1 (fixed configuration) ¹	AS -2015A-TR
Form Factor	<ul style="list-style-type: none"> 1U rackmount 	<ul style="list-style-type: none"> 1U rackmount 	<ul style="list-style-type: none"> 2U rackmount
Processor Support	<ul style="list-style-type: none"> Single AM5 socket for AMD EPYC 4005/4004 Series processor up to 170W TDP Up to 16 cores, up to 170W TDP per socket¹ B650 platform controller hub 	<ul style="list-style-type: none"> 16-core AMD EPYC 4584PX CPU, 4.2 GHz, boost up to 5.7 GHz, and with 128 MB L3 cache 	<ul style="list-style-type: none"> Single AM5 socket for AMD EPYC 4005/4004 Series processor up to 170W TDP Up to 16 cores, up to 170W TDP per socket¹ B650 platform controller hub
Memory Slots & Capacity	<ul style="list-style-type: none"> 2-channel DDR5 memory support 4 slots for up to 192 GB ECC or non-ECC DDR5-5200 UDIMMs 	<ul style="list-style-type: none"> 32 GB DDR5-4800 (2x16 GB) non-ECC UDIMM 2 DIMM slots available for expansion 	<ul style="list-style-type: none"> 2-channel DDR5 memory support 4 slots for up to 192 GB ECC or non-ECC DDR5-5200 UDIMMs
Expansion Slots	<ul style="list-style-type: none"> 1 x16 PCIe 5.0 half-height, full-length slot 	<ul style="list-style-type: none"> 1 x16 PCIe 5.0 half-height, full-length slot 	<ul style="list-style-type: none"> 2 x16 PCIe 5.0 low-profile slots 1 x4 PCIe 4.0 low-profile slots
Storage	<ul style="list-style-type: none"> 2x 2.5" or 1x 3.5" fixed internal SATA3 drive bays² 2 PCIe 5.0 x4 M-Key NVMe M.2 drive slots 	<ul style="list-style-type: none"> 1x 960 GB NVMe PCIe 4.0 Enterprise-grade M.2 drive 1 M.2 slot available Drive bay for 2x 2.5" or 1x 3.5" SATA3 drives² 	<ul style="list-style-type: none"> 8 front-panel hot-swap 3.5" SAS/SATA drive bays 2 PCIe 5.0 x4 M-Key NVMe M.2 drive slots
Networking	<ul style="list-style-type: none"> 2x GbE ports (Intel i210AT) 	<ul style="list-style-type: none"> 2x GbE ports (Intel i210AT) 	<ul style="list-style-type: none"> 2x GbE ports (Intel i210AT)
Front I/O Ports	<ul style="list-style-type: none"> Power button, system reset button, status LEDs 	<ul style="list-style-type: none"> Power button, system reset button, status LEDs 	<ul style="list-style-type: none"> Power button, system reset button, status LEDs
Rear I/O Ports	<ul style="list-style-type: none"> 2 USB 3.2 Gen 2 with DisplayPort alternate mode support 1 USB 3.2 Gen 2x2 Type C (20 Gb/s) 3 USB 3.2 Gen 2x1 Type A (10 Gb/s) 1 dedicated GbE IPMI management port 1 VGA (shared with IPMI), 1 HDMI 2.0b, 1 DisplayPort 1.4a with ASPEED AST2600 BMC graphics 1 COM port HD 7.1-channel audio via Realtek ALC888S-VD 	<ul style="list-style-type: none"> 2 USB 3.2 Gen 2 with DisplayPort alternate mode support 1 USB 3.2 Gen 2x2 Type C (20 Gb/s) 3 USB 3.2 Gen 2x1 Type A (10 Gb/s) 1 dedicated GbE IPMI management port 1 VGA (shared with IPMI), 1 HDMI 2.0b, 1 DisplayPort 1.4a with ASPEED AST2600 BMC graphics 1 COM port HD 7.1-channel audio via Realtek ALC888S-VD 	<ul style="list-style-type: none"> 2 USB 3.2 Gen 2 with DisplayPort alternate mode support 1 USB 3.2 Gen 2x2 Type C (20 Gb/s) 3 USB 3.2 Gen 2x1 Type A (10 Gb/s) 1 dedicated GbE IPMI management port 1 VGA (shared with IPMI), 1 HDMI 2.0b, 1 DisplayPort 1.4a with ASPEED AST2600 BMC graphics 1 COM port HD 7.1-channel audio via Realtek ALC888S-VD
Security	<ul style="list-style-type: none"> TPM 2.0 header Hardware root of trust 	<ul style="list-style-type: none"> TPM 2.0 Hardware root of trust 	<ul style="list-style-type: none"> TPM 2.0 Hardware root of trust
System Management	<ul style="list-style-type: none"> Built-in server management tool (IPMI 2.0, KVM/media over LAN) with dedicated GbE LAN port Redfish APIs Supermicro SuperDoctor® 5.0 Supermicro Server Manager (SSM) Supermicro Update Manager (SUM) 	<ul style="list-style-type: none"> Built-in server management tool (IPMI 2.0, KVM/media over LAN) with dedicated GbE LAN port Redfish APIs Supermicro SuperDoctor® 5.0 Supermicro Server Manager (SSM) Supermicro Update Manager (SUM) 	<ul style="list-style-type: none"> Built-in server management tool (IPMI 2.0, KVM/media over LAN) with dedicated GbE LAN port Redfish APIs Supermicro SuperCloud Composer Supermicro SuperDoctor® 5.0 Supermicro Server Manager (SSM) Supermicro Update Manager (SUM) Super Diagnostics Offline Supermicro Thin-Agent Service (TAS)
System Cooling	<ul style="list-style-type: none"> 6 internal fans 	<ul style="list-style-type: none"> 6 internal fans 	<ul style="list-style-type: none"> 3 internal 80mm fans
Power Supply	<ul style="list-style-type: none"> 500W 80 PLUS Platinum power supply unit 	<ul style="list-style-type: none"> 500W 80 PLUS Platinum power supply unit 	<ul style="list-style-type: none"> 2 redundant 800W Titanium power supply units

1. Sold only as a completely assembled system

2. Optional parts are required to support 2.5" drives