H13 MicroCloud System
High Density Multi-Node System for the Cloud

3U, Up to 10-Node-Per-Chassis Flexible Architecture
Maximize resource savings through shared power and cooling with the following resources per node:

- Single AMD EPYC™ 4004 Series processor
- Up to 192 GB DDR5-5200 memory
- Two U.2 NVMe drives and one M.2 NVMe
- One PCIe 5.0 expansion slot
- Flexible networking options with PCIe 5.0 MicroLP interfaces
- Redundant Titanium level shared power supplies

Many cloud applications need dedicated servers with bare-metal performance. Powered by AMD EPYC™ 4004 Series processors, the 3U, multi-node AS-3015MR-H8TNR MicroCloud is an easy-to-configure system with up to 10 single-processor nodes delivering excellent node density. You reap the benefits of low power consumption through shared power and cooling infrastructure, and affordable pricing that is favorable compared to the same number of 1U servers. With hot-swappable nodes, the system is easy to maintain and also easy to upgrade with future nodes.

Multi-Node System for Dedicated Hosting
This new Supermicro multi-node system is designed for applications that need a large number of discrete servers. They are ideal for virtualized and nonvirtualized applications including:

- E-commerce sites that support customers with their digital transformation using dedicated hosting
- Centralized code development with high-powered multi-threaded processing that helps reduce compile times
- Cloud gaming powered by AMD Ryzen, the ultimate gaming processor
- Content creation, whether editing 4K footage or crafting complex designs, AMD Ryzen performance helps creative teams iterate their projects more quickly

Virtual private servers that can give service-provider customers a dedicated core per virtual machine, up to 16 customers on a single node

Powered by the AMD EPYC 4004 Series
With the same high-performance ‘Zen 4’ cores that power AMD server processors, the EPYC™ 4004 Series delivers up to 16 cores, 32 threads, and boost frequencies up to 5.7 GHz. It has all of the features you need for cloud and dedicated hosting applications including fast DDR5-5200 memory and PCIe 5.0 I/O. They can equally propel e-commerce, software development, and creative applications with options ranging from six to 16 cores. Supported processors and their maximum boost frequencies include:

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Flexible Node Configurations

Each node incorporates a single Supermicro low-profile interface card for network connectivity up to 10 Gigabit Ethernet. In addition to an M.2 boot-drive slot, each node includes a single 8-lane PCIe 5.0 low-profile slot. This can be used for GPU accelerators to speed rendering in cloud gaming environments, or for content creating and transcoding work. If the priority is to protect data with a RAID configuration, HBA and RAID cards can be used in the single slot.

Open Management

Regardless of your data center’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 per node, Supermicro® SuperCloud Composer software helps you configure, maintain, and monitor all of your systems using single-pane-of-glass management. If your DevOps teams prefer to use their own tools, industry-standard Redfish® APIs provide access to higher-level tools and scripting languages.

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Certain CPUs with high TDP may be supported only under specific conditions. Please contact Supermicro Technical Support for additional information about specialized system optimization.