H13 CLOUD DC Systems
Ultimate Scalability and Flexibility for Cloud Data Centers

Our cloud-data-center-optimized servers are ready to take you into the future with H13 generation technology that can help you deliver cost-optimized services in an increasingly competitive economy.

Cloud-Optimized Single-Socket Systems
H13 CloudDC systems are single-socket systems optimized for AMD EPYC™ 9004 Series processors with up to 128 cores and 256 threads—ready to power a wide range of cloud workloads. The capacity for up to 3 TB of memory accessed through twelve high-speed channels provides the right balance of CPU-to-memory resources to power workloads ranging from financial services to virtualization. Internally, the system utilizes 128 PCIe 5.0 lanes that support high-speed, high-bandwidth networking and storage. Our 2U server’s I/O capacity extends to up to four PCIe expansion slots, each with 16-lane capability.

Advanced I/O
The H13 CloudDC line supports up to two industry-standard Open Compute Platform (OCP) 3.0-compliant Supermicro Advanced I/O Modules (AIOMs), each with x16 PCIe 5.0 connectivity. These enable you to dial in the type and bandwidth of network connectivity that meets your business needs. Support 100 Gigabit Ethernet to connect with the network you have in place today, as well as 200-Gbps InfiniBand connectivity for extremely high-bandwidth, low-latency cluster interconnections.

Single-Socket 1U and 2U Options
Flexible configurations for I/O and storage designed for cloud data centers
- Single-socket servers with up to 128 cores of 4th Gen AMD EPYC processor performance
- Tool-less design for rapid deployment and easy maintenance
- Up to 3 TB of memory with 12 DDR5-4800 DIMMs
- PCIe 5.0 I/O with CXL 1.1+ for double the bandwidth of our prior generation servers
- Two 16-lane AIOM slots for flexible networking
- 2.5” and 3.5” NVMe and SATA drive options to meet virtually any workload storage requirements

Key Applications
H13 CloudDC systems are designed for cost-effective service delivery in cloud computing environments, including the following workloads:
- Internet infrastructure including Web hosting, name, and email services
- Virtualization
- Public and private cloud computing
- Content-delivery networks (CDNs)
- Deep learning inferencing
- Financial services applications

Designed for AMD EPYC Processors
A single AMD EPYC processor gives you a no-compromise single-socket system, delivering the core density that once required two processors to achieve. With AMD you get more cores per dollar, more virtual instances on a server, and more subscribers in your data center. The CPU’s 128 lanes of PCIe 5.0 connectivity eliminates the need to scale up computing power just to accommodate more I/O bandwidth. The system-on-chip nature of the processor eliminates the need for external chip sets that contribute to design complexity and power consumption. Best of all, you only need to purchase...
Innovative, Tool-Less Design

Cloud data centers are all about scale, with a constant flow of new servers that scale capacity to new heights and also refresh existing infrastructure. Most of the time servers don’t need to be touched. But when it is time to update server connectivity with a faster network, or respond to a rare component failure with a replacement part, the value of the H13 Cloud DC product line can’t be overstated.

The front-panel-accessible drives and their brackets are hot swappable and require no tools. Rear-panel components including power supplies, PCIe devices, and AIO-M cards are all tool-less. The chassis lid can be opened by hand and mid-chassis fans pop out for replacement.

Open Architecture

Our open architecture approach for memory and storage gives you the convenience of preinstalled, Supermicro-qualified devices. Whatever your choice, our approach gives you flexibility, easy maintenance, and operating cost reduction.

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, 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.

### H13 Cloud DC Systems

#### DATASHEET

**Open Architecture**

Our open architecture approach for memory and storage gives you the convenience of preinstalled, Supermicro-qualified devices. Whatever your choice, our approach gives you flexibility, easy maintenance, and operating cost reduction.

**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, 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.

### H13 Cloud DC Systems

#### DATASHEET

**Open Architecture**

Our open architecture approach for memory and storage gives you the convenience of preinstalled, Supermicro-qualified devices. Whatever your choice, our approach gives you flexibility, easy maintenance, and operating cost reduction.

**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, 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.

### H13 Cloud DC Systems

#### DATASHEET

**Open Architecture**

Our open architecture approach for memory and storage gives you the convenience of preinstalled, Supermicro-qualified devices. Whatever your choice, our approach gives you flexibility, easy maintenance, and operating cost reduction.

**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, 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.

### H13 Cloud DC Systems

#### DATASHEET

**Open Architecture**

Our open architecture approach for memory and storage gives you the convenience of preinstalled, Supermicro-qualified devices. Whatever your choice, our approach gives you flexibility, easy maintenance, and operating cost reduction.

**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, 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.

### H13 Cloud DC Systems

#### DATASHEET

**Open Architecture**

Our open architecture approach for memory and storage gives you the convenience of preinstalled, Supermicro-qualified devices. Whatever your choice, our approach gives you flexibility, easy maintenance, and operating cost reduction.

**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, 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.

### H13 Cloud DC Systems

#### DATASHEET

**Open Architecture**

Our open architecture approach for memory and storage gives you the convenience of preinstalled, Supermicro-qualified devices. Whatever your choice, our approach gives you flexibility, easy maintenance, and operating cost reduction.

**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, 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.

### H13 Cloud DC Systems

#### DATASHEET

**Open Architecture**

Our open architecture approach for memory and storage gives you the convenience of preinstalled, Supermicro-qualified devices. Whatever your choice, our approach gives you flexibility, easy maintenance, and operating cost reduction.

**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, 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.

### H13 Cloud DC Systems

#### DATASHEET

**Open Architecture**

Our open architecture approach for memory and storage gives you the convenience of preinstalled, Supermicro-qualified devices. Whatever your choice, our approach gives you flexibility, easy maintenance, and operating cost reduction.

**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, 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.

### H13 Cloud DC Systems

#### DATASHEET

**Open Architecture**

Our open architecture approach for memory and storage gives you the convenience of preinstalled, Supermicro-qualified devices. Whatever your choice, our approach gives you flexibility, easy maintenance, and operating cost reduction.

**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, 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.