H12SST-PS (For A+ Server Only)

Key Features 1. Single AMD EPYC™ 7003/7002 Series Processor (The latest AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer)
2. 2TB Registered ECC DDR4 3200MHz SDRAM in 8 DIMMs
3. Expansion slots: 1 PCI-E 4.0 x16 Left Riser Slot 1 PCI-E 4.0 x16 Right Riser Slot 1 PCI-E 4.0 x16 SIOM LAN Networking Slot M.2 Interface: 4 SATA/PCI-E 4.0 x4 M.2 Form Factor: 22110, 2280, 2260, 2242 M.2 Key: M-key
4. 6 SATA3, 4 M.2, 2 SuperDOM
5. Onboard LAN Provided by Realtek RTL8211F PHY
6. ASPEED AST2500 BMC graphics
7. Up to 2 USB 3.0 ports (Rear)
1 USB 2.0 port (Type A)

Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

Links & Resources

- Tested Memory List
- <u>Tested HDD List</u>
- Tested M.2 List
- Tested AOC List
- Motherboard Manual
- Update Your BIOS
- IPMI Firmware
- Download the Latest Drivers and Utilities
- Download Driver CD
- OS Compatibility



Specifications

2U

Product SKUs

MBD-H12SST-PS	 H12SST-PS (for server SKUs only) 	
Physical Stats		
Form Factor	■ Proprietary TwinPro [™]	
Dimensions	∎ 6.8" x 18.86"	

Processor/Chipset

CPU	 Single AMD EPYC[™] 7003/7002 Series Processor (The latest AMD EPYC[™] 7003 Series Processor with AMD 3D V- Cache[™] Technology requires BIOS version 2.3 or newer) Socket SP3
Cores	■ Up to 64 Cores
Chipset	System on Chip

System Memory

Memory Capacity	 8 DIMM slots Supports up to 2TB Registered ECC DDR4 3200MHz SDRAM in 8 DIMMs 8-channel memory bus 		
Memory Type	 DDR4 3200 MHz Registered ECC, 288-pin gold-plated DIMMs 		
DIMM Sizes	∎ 8GB, 16GB, 32GB, 64GB, 128GB, 256GB		
Memory Voltage	∎ 1.2V		
Error Detection	 Corrects single-bit errors Detects double-bit errors (using ECC memory) 		

On-Board Devices

SATA	 SATA3 (6 Gbps) 	
IPMI	 Support for Intelligent Platform Management Interface v. 2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ASPEED AST2500 BMC 	
Network Controllers	 1 PCI-E 4.0 x16 SIOM LAN Networking Slot 1 Realtek RTL8211F PHY (dedicated IPMI) 	
VGA	ASPEED AST2500 BMC	

Input / Output

SATA	∎ 6 SATA3 (6 Gbps) ports			
LAN	 Provided via SIOM 1 RJ45 Dedicated IPMI LAN port 			
USB	 2 USB 3.0 ports (2 rear) 1 USB 2.0 port (Type A) 			
VGA	 1 VGA port 			
Others	 2 COM ports 2 SuperDOM power connectors 1 TPM 1.2/2.0 header 			

Chassis (Optimized for H12SST-PS)

SC827HQ+-R2K04BP2

Server(s) (with H12SST-PS)

Model(s)	■ <u>AS -2014TP-HTR</u>		
System BIOS			
BIOS Type	AMI 256Mb SPI Flash EEPROM		
BIOS Features	 Plug and Play (PnP) DMI 2.3 PCI 2.2 ACPI 5.1 USB Keyboard Support SMBIOS 3.1.1 		
Management			
Management Software	 <u>Super</u> Doctor 5 Watch Dog NMI <u>SUM</u> <u>IPMI 2.0</u>, KVM with dedicated LAN 		

PC Health Monitoring

CPU	 Monitors CPU Core Voltages, +1.5V, +1.8V, +12V, +5V, +5V standby CPU switching voltage regulator 		
FAN	 Up to 2 fan status tachometer monitoring Up to 2 4-pin fan headers Status monitor for speed control Pulse Width Modulated (PWM) fan connectors 		
Temperature	 Monitoring for CPU and chassis environment CPU Thermal Trip Support Thermal control for 8x Fan connectors I²C Temperature Sensing Logic 		
LED	CPU / System Overheat LED		
Other Features	Chassis Intrusion DetectionChassis Intrusion Header		

Operating Environment / Compliance

Environmental Specifications	 Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
---------------------------------	---

05.05.2022, 12:18

H12SST-PS | Motherboards | Super Micro Computer, Inc.

Expansion Slots

PCI-Express	 1 PCI-E 4.0 x16 Left Riser Slot 1 PCI-E 4.0 x16 Right Riser Slot 1 PCI-E 4.0 x16 SIOM LAN Networking Slot
М.2	 Interface: 4 SATA/PCI-E 4.0 x4 Form Factor: 22110, 2280, 2260, 2242 Key: M-key

Parts List

Retail Pack List

	Part Number	Qty	Description
H12SST-PS	MBD-H12SST-PS -O	1	H12SST-PS Motherboard

Optional Parts List

	Part Number	Qty	Description
TPM security module	<u>AOM-TPM-9655V</u>	-	TPM 1.2 module with Infineon 9655, RoHS/REACH, PBF;
	<u>AOM-TPM-9665V</u>	-	TPM 2.0 module with Infineon 9665, RoHS/REACH, PBF;