Mainstream SuperServer SYS-220P-C9RT

More details here

Key Applications

High Performance Computing, Enterprise Server, Data Center Optimized,
Database Processing and High Density Storage, Application-Optimized
Solutions,

Key Features

- Dual sockets P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors;CPU
  TDP supports Up to 270W TDP;3 UPI up to 11.2 GT/s;
- Intel® C621A Chipset;
- Up to 4TB 3DS ECC RDIMM, DDR4-3200MHz, Up to 4TB 3DS ECC LRDIMM,
  DDR4-3200MHz ;- Up to 4TB Intel® Optane™ Persistent Memory 200 Series,
  DDR4-3200MHz, in 18 DIMM slots (P1-DIMMB2 and P2-DIMMB2 are reserved
  for Intel® Optane Persistent Memory 200 Series only);
- 4 PCIe 4.0 x16 Low Profile (LP);1 PCIe 4.0 x8 Low Profile (LP);* PCIe slot#1 is
  populated with 1x AOC-S3908L-H8IR-16DD-P to support 8x SAS drives;

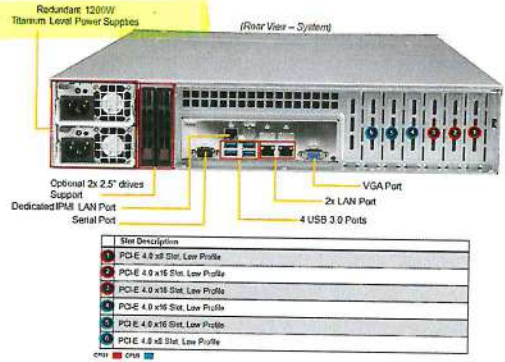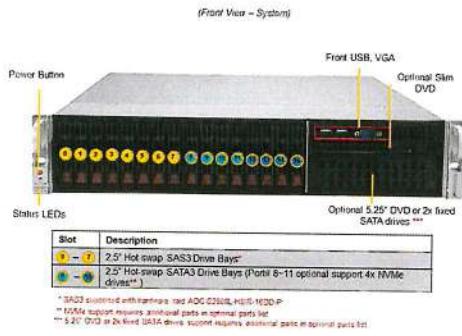|	
Form Factor	**2U Rackmount**
	Enclosure: 437 x 89 x 630mm (17.2" x 3.5" x 24.8")
	Package: 737 x 279 x 983mm (29" x 11" x 38.7")
Processor	3rd Gen Intel® Xeon® Scalable processors
	Dual Socket LGA-4189 (Socket P+) supported
	TDP up to 270W;
Drive Bays	16x 2.5" hot-swap drive bays;
Expansion Slots	4 PCIe 4.0 x16 LP slot(s)
	1 PCIe 4.0 x8 LP slot(s)
On-Board Devices	Chipset: Intel® C621A
	Network Connectivity: 2x 10GbE port(s)
	IPMI: Support for Intelligent Platform Management Interface v.2.0
	IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	LAN: 1 dedicated IPMI LAN port
	USB: 2 USB 2.0 port(s) (2 front)
	4 USB 3.0 port(s) (4 rear)
	Video: 1 VGA port(s)
	Serial Port: 2 COM Port(s) (1 rear; 1 front)
	DOM: 2 SuperDOM (Disk on Module) port

Handwritten annotations: STAVKA 1.1 (pointing to Form Factor); STAVKA 1.5 (pointing to Drive Bays); 1./42.

(Front View – System)

(Rear View – System)

System Cooling	3 heavy duty fan(s)

Power Supply

1U 1200W/1000W Titanium Power Supply W/PMbus W76xL336xH40mm
Dimension (W x H x L): 76 x 40 x 336 mm
Output Type: Gold Finger

→ STAVKA 1.2

System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM

Management	NMI; SUM; KVM with dedicated LAN; SPM; Intel® Node Manager; SSM; Redfish API; IPMI2.0; Supermicro Out of Band (OOB) License (included in the unit)

PC Health Monitoring

CPU: Monitors for CPU Cores, Chipset Voltages, Memory
    4+1 Phase-switching voltage regulator
FAN: Fans with tachometer monitoring
    Status monitor for speed control
    Pulse Width Modulated (PWM) fan connectors
Temperature: Monitoring for CPU and chassis environment
    Thermal Control for fan connectors

Dimensions and Weight

Height: 3.5" (89 mm)
Width: 17.2" (437 mm)
Depth: 24.8" (630 mm)
Gross Weight: 63 lbs (28.8 kg)
Net Weight: 38 lbs (17.4 kg)
Packaging: 11" (H) x 29" (W) x 38.7" (D)
Available Color: Black

Operating Environment

ROHS: RoHS Compliant
Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)
Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)
Operating Relative Humidity: 8% to 90% (Non-Condensing)
Non-operating Relative Humidity: 5% to 95% (Non-Condensing)
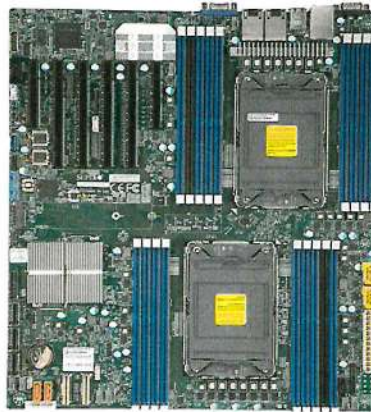
Motherboard	Super X12DPi-NT6

Chassis	CSE-213BTS-R1K23LPBP3-1

Mainstream SuperServer SYS-220P-C9RT

Integrated Board: X12DPi-NT6

[**Learn More**]

Key Applications

- High Performance Computing
- Data Center Optimized
- Application-Optimized Solutions

- Enterprise Server
- Database Processing and High Density Storage

Key Features

Dual sockets P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors   → STAVKA   1.3

CPU TDP supports Up to 270W TDP

3 UPI up to 11.2 GT/s

Intel® C621A Chipset

Up to 4TB 3DS ECC RDIMM, DDR4-3200MHz, Up to 4TB 3DS ECC LRDIMM, DDR4-3200MHz

- Up to 4TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 18 DIMM slots (P1-DIMMB2 and P2-DIMMB2 are reserved for Intel® Optane Persistent Memory 200 Series only)

4 PCIe 4.0 x16 Low Profile (LP)

1 PCIe 4.0 x8 Low Profile (LP)

* PCIe slot#1 is populated with 1x AOC-S3908L-H8IR-16DD-P to support 8x SAS drives

Dual 10GBase-T LAN with Intel® X550 Ethernet Controller

16 hotswap 2.5" drive bays

8 SAS drives wih Broadcom® 3908 Gen4 HW RAID controller for RAID 0, 1, 5, 6, 10, 50, 60

8 SATA drives with Intel® C621A controller for RAID 0,1,5,10

1 M.2 support:

- M.2 Interface: PCIe 3.0 x4

- M.2 Form Factor: 2260, 2280, 22110

- M.2 Key: M-Key

Optional 1 slim or 5.25" DVD-ROM drive

Optional 4x hotswap 2.5" NVMe or 2 fixed 2.5" NVMe/SSD/HDD/SuperDOM

3 heavy duty Hot-swappable 13.5K RPM Middle Cooling Fans with optimal fan speed control

1 air shroud

1200W Redundant Power Supplies Titanium level 100-240Vac and 200-240 Vdc

1 rear VGA, 1 Type A port, 2 COM Ports (1 front; 1 rear) and 6 USB ports (2 front USB 2.0 and 4 rear USB 3.0)

Specifications

3./42.

Product SKUs
SuperServer **SYS-220P-C9RT**
(Black)
Motherboard
Super X12DPi-NT6
Processor
CPU
Dual Socket P+ (LGA-4189)   → STAVKA 1,3
3rd Gen Intel® Xeon® Scalable processors
Support CPU TDP 270W
Cores
Up to 36C/72T; Up to 60MB Cache
System Memory
Memory
Memory Capacity: 16 DIMM slots
Up to 4TB: PMem and DRAM
Memory Type: 3200MHz ECC
LRDIMM/RDIMM DDR4
Intel® Optane™ persistent memory 200
series
On-Board Devices
Chipset
Intel® C621A
Network Connectivity
2x 10GbE port(s)
IPMI
Support for Intelligent Platform
Management Interface v.2.0
IPMI 2.0 with virtual media over LAN and
KVM-over-LAN support

Input / Output
LAN
1 dedicated IPMI LAN port
USB
2 USB 2.0 port(s) (2 front)
4 USB 3.0 port(s) (4 rear)
Video
1 VGA port(s)
Serial Port
2 COM Port(s) (1 front; 1 rear)
DOM
2 SuperDOM (Disk on Module) port

System BIOS
BIOS Type
AMI 32MB SPI Flash EEPROM
Management
Software
Supermicro Out of Band (OOB)
License (included in the unit)
IPMI2.0
Redfish API
SSM
Intel® Node Manager
SPM
KVM with dedicated LAN
SUM
NMI
Power Configurations
ACPI/APM Power Management
PC Health Monitoring
CPU
4+1 Phase-switching voltage regulator
Monitors for CPU Cores, Chipset Voltages,
Memory
FAN
Fans with tachometer monitoring
Pulse Width Modulated (PWM) fan
connectors
Status monitor for speed control
Temperature
Monitoring for CPU and chassis
environment
Thermal Control for fan connectors

Chassis
Form Factor
2U Rackmount
Model
CSE-213BTS-R1K23LPBP3-1
Dimensions and Weight
Height
3.5" (89mm)
Width
17.2" (437mm)
Depth
24.8" (630mm)
Package
11" (H) x 29" (W) x 38.7" (D)
Weight
Net Weight: 38 lbs (17.4 kg)
Gross Weight: 63 lbs (28.8 kg)
Available Color
Black

Front Panel
Buttons
Power On/Off
System Reset
LEDs
HDD activity
Network activity
Power status
System information (overheat/UID)
Expansion Slots
PCI-Express (PCIe)
4 PCIe 4.0 x16 LP slot(s)
1 PCIe 4.0 x8 LP slot(s)
Drive Bays / Storage
Hot-swap
16x 2.5" hot-swap drive bays (8x SAS drive
bays with Broadcom® 3908 HW RAID
controller(backplane port# 0~7) and 8x
SATA drive bays (backplane port# 8~15)
with Intel® C621A (4x SATA drive bays
(backplane port# 8~11) can be converted
to NVMe drives with optional 2x CBL-SAST-
0821-1)
M.2
1 M.2 NVMe
Peripheral Bays
1x (slim or 5.25") DVD drive bays (optional)
System Cooling
Fans
3 heavy duty fans with optimal fan speed
control
Power Supply
1U 1200W/1000W Titanium
Power Supply W/PMbus
W76xL336xH40mm
Dimension
(W x H x L)
76 x 40 x 336 mm
AC Input
1000W: 100-127Vac / 15A-12A / 50-60Hz
1200W: 200-240Vac / 8.5A-7A / 50-60Hz
+12V
Max: 83A / Min: 0A (100Vac-127Vac)
Max: 100A / Min: 0A (200Vac-240Vac)
5V SB
Max: 4A / Min: 0A
Output Type
Gold Finger
Certification

[80 PLUS TITANIUM] [logo] **Titanium Level**

[**Test Report**]

Operating Environment
RoHS
RoHS Compliant
Environmental Spec.
Operating Temperature:
  10°C ~ 35°C (50°F ~ 95°F)
Non-operating Temperature:
  -40°C to 60°C (-40°F to 140°F)
Operating Relative Humidity:
  8% to 90% (Non-Condensing)
Non-operating Relative Humidity:
  5% to 95% (Non-Condensing)

Parts List

Standard Parts (Parts Included)

Motherboard / Chassis

Part Number	MBD-X12DPi-NT6		CSE-213BTS-R1K23LPBP3-1
Qty	1		1
Description	Super X12DPi-NT6 Motherboard		2U Chassis

Add-on Card / Module
Part Number   AOC-S3908L-H8IR-16DD-P

Qty	1			
Description	8 int 12Gb/s ports, x8 Gen4, ROC - LP, 16 HDD w/ exp,RoHS			

Backplane

Part Number	BPN-SAS3-213A-N8
Qty	1
Description	16-port 2U SAS3 12Gbps hybrid backplane, support up to 8x 2.5-inch SAS3/SATA3 HDD/SSD and 8x SAS3/SATA3/NVMe Storage Devices

Cable

Part Number	CBL-SAST-0508-01 CBL-PWCD-0160-IS	CBL-SAST-0508-02 CBL-PWEX-1069	CBL-SAST-1264-100	CBL-0071L	CBL-0217L
Qty	2 2	2 3	1	1	1
Description	Internal Mini-SAS to Mini-SAS HD 50cm w/ SB, 30AWG PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH	Internal Mini-SAS to Mini-SAS HD 50cm w/ SB, 30AWG PWEX,FAN,1X4/P2.5 TO 1X4/P2.54,30CM,22AWG,5A/pin,RoHS	Slimline x8 (STR) to 2x MiniSAS HD x4,65CM,100 OHM,RoHS	ROUND 16 TO 16 PIN RIBBON FP CABLE 30"L, LF	16PIN CNTL PANEL CONVERTER CBL FOR SC826,PBF

Drive Tray(s)

Part Number	MCP-220-00007-01	MCP-220-00009-01	MCP-220-00023-01	MCP-220-00047-0B
Qty	1	1	1	16
Description	Black USB/COM port tray for SC825, 836	Black 5.25"; drive tray w/o rail (square pattern)	Black USB dummy tray support 1x 2.5" slim HDD for SC825, 836	Black gen 3rd hot-swap 2.5inch HDD tray

Parts

Part Number	MCP-260-00042-0N
Qty	1
Description	STD I/O shield for X9 socket R server MB with Gasket.

Manual

Part Number	MNL-2243-QRG
Qty	1
Description	SYS-220P-C9R(T) Quick Reference Guide

Software

Part Number	SFT-OOB-LIC
Qty	1
Description	License key for enabling OOB BIOS management

Heatsink / Retention

Part Number	SNK-P0078P	SNK-P0078PC
Qty	1	1
Description	2U Passive CPU Heat Sink for X12 Generation Intel Whitley and Cedar Island Platforms	2U Passive CPU Heat Sink w/ a Side Air Channel for X12 Generation Intel Whitley and Cedar Island Platforms

*Power Supply

Part Number	PWS-1K23A-1R
Qty	2
Description	AC-DC 1200W, Titanium Level, Redundancy, 1U, PMBUS 1.2, +12V/+5Vsb, 336x76x40 mm,HF,RoHS/REACH

*Power Distributor

Part Number	PDB-PT829-S8824
Qty	1
Description	PDB with 23pairs input connectors for SC829B216B

*Fan

Part Number	FAN-0206L4
Qty	3
Description	80x80x38 mm, 13.5K RPM, Middle Cooling Fan for 2U and above Servers

*Front Panel

Part Number	FPB-FP826-D	FPB-TB826
Qty	1	1
Description	Front control board Dual color LED(FP826-D)forSC826,213,216,	16 pin Cable Adaptor Board for SC826

*Rear Window

Part Number	MCP-240-82608-0N
Qty	1
Description	216B/826B LP rear window,RoHS/REACH,PBF

*Peripheral Drive

Part Number	MCP-290-00007-01
Qty	1
Description	Black DVD dummy cover for SC825, 836

*Rail Set

Part Number	MCP-290-00053-0N	MCP-290-00060-0N
Qty	1	1
Description	Rail set, quick/quick, default for 2,3U 17.2";W	Threaded rail adapter default for round hole rack

*Air Shroud

Part Number	MCP-310-29001-0N
Qty	1
Description	SC825/826/216/213 Intel DP X9,X8 air shroud 13.68x13/12x13

Notes:

1. Parts with * are inside the chassis
2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.

Optional Parts List

BTR kit for AOC-S3108L-H8IR or AOC-S3108L-H8IR-16DD with SYS-220P-C9RT

Part Number	1x BTR-TFM8G-LSICVM02 and 1x BKT-BBU-BRACKET-05 with AOC-S3108L-H8IR or AOC-S3108L-H8IR-16DD
Qty	1
Description	SuperCap and mounting bracket used for SAS raid controllers

BTR kit for AOC-S3908L-H8IR-16DD-P and AOC-S3916L-H16R-32DD with SYS-220P-C9RT

Part Number	1x BTR-CVPM05 and 1x BKT-BBU-BRACKET-05 with AOC-S3908L-H8IR-16DD-P and AOC-S3916L-H16R-32DD
Qty	1
Description	SuperCap and mounting bracket used for SAS raid controllers

BTR kit for Broadcom/LSI AOC-SAS3-9361-16I with SYS-220P-C9RT

Part Number	1x BTR-TFM4G-LSI00418 and 1x BKT-BBU-BRACKET-05 used with Broadcom/LSI AOC-SAS3-9361-16I
Qty	1
Description	SuperCap and mounting bracket used for SAS raid controllers

Optional Gen3 16-ports SAS Raid controller kit for SYS-220P-C9RT

Part Number	AOC-SAS3-9361-16I and 4x CBL-SAST-0593-01 or 4x CBL-SAST-0531-01
Qty	1
Description	to use one raid controller to support all 16 drives bays, the default AOC-S3908L-H8IR-16DD-P raid controller is not used

Optional Gen4 16-ports SAS Raid controller kit for SYS-220P-C9RT

Part Number	1x AOC-S3916L-H16R-32DD and 2x CBL-SAST-1264-100
Qty	1
Description	to use one raid controller to support all 16 drives bays, the default AOC-S3908L-H8IR-16DD-P raid controller is not used

Optional Gen3 8-ports SAS Raid controller kit for SYS-220P-C9RT

Part Number	AOC-S3108L-H8IR or AOC-S3108L-H8IR-16DD + 2x CBL-SAST-0531-01
Qty	1
Description	to convert system SATA ports# 8~15 to SAS drive support; There are two raid controllers in the system and each raid controller supports 8x SAS drives

Optional parts needed to support 2x fixed NVMe drives

Part Number	1x MCP-220-00160-0N (Dual 2.5" Drive BKT) and 1x CBL-SAST-0953 (Slimline x8 to PCIe 2x SFF-8639 Power)
Qty	1
Description	1x MCP-220-00160-0N can support 2x NVMe fixed drives in 1x 5.25 inch drive bay and 1x CBL-SAST-0953 can support 2x 2.5 inch NMVe drives

Optional parts needed to support 2x fixed SATA drives

Part Number	1x MCP-220-00160-0N (Dual 2.5" Drive BKT), 2x CBL-0044L(SATA CABLE 61CM FLAT S-S PBF.26AWG flat) and 1x CBL-0082L (Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG)
Qty	1
Description	1x MCP-220-00160-0N can support 2x 2.5 inch fixed drives in 1x 5.25 inch drive bay, 1x CBL-0044L can support 1x 2.5 inch SATA drives and 1x CBL-0082L can support 2x 2.5 inch SATA drives

Optional parts needed to support 4x hotswap NVMe drives

Part Number	2x CBL-SAST-0821-1 (SLIMLINE x8 (LE) to 2x Oculink x4, 46/50CM,85 OHM,RoHS)
Qty	1

6./42 4/5

Description	1x CBL-SAST-0821-1 can support can support 2x 2.5 inch hotswap NMVe drives, system can support Max. 4x NMVe drives (hotswap and fixed combined) only

7,/42.

☰   ⊕ 🔍

Intel® Products   Intel® Processors   Intel® Xeon® Processors

Intel® Xeon® Gold 5315Y Processor   → STANKA 1.8
12M Cache, 3.20 GHz

Intel® Xeon® Gold 5315Y Processor
12M Cache, 3.20 GHz

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Specifications

Download Specifications ↓

Essentials

Product Collection	3rd Generation Intel® Xeon® Scalable Processors
Code Name	Products formerly Ice Lake
Vertical Segment	Server
Processor Number ⑦	5315Y
Lithography ⑦	10 nm
Recommended Customer Price ⑦	$1025.00

CPU Specifications

STANKA 1.8

Total Cores ⑦	8
Total Threads ⑦	16
Max Turbo Frequency ⑦	3.60 GHz
Intel SpeedStep® Max Frequency	3.60 GHz
Processor Base Frequency ⑦	3.20 GHz
Cache ⑦	12 MB
Intel® UPI Speed	11.2 GT/s
Max # of UPI Links ⑦	3
TDP ⑦	140 W

Intel® Speed Select Technology - Performance Profile (Intel® SST-PP)

8./42.

Config	Active Cores	Base Frequency	TDP	Description
1	6	3.2 GHz	125W	
2	4	3.4 GHz	115W	

Supplemental Information

Marketing Status	Launched
Launch Date ⑦	Q2'21
Embedded Options Available ⑦	Yes

Memory Specifications

Max Memory Size (dependent on memory type) ⑦	6 TB
Memory Types ⑦	DDR4-2933
Maximum Memory Speed	2933 MHz
Max # of Memory Channels ⑦	8
Intel® Optane™ Persistent Memory Supported ⑦	Yes
ECC Memory Supported † ⑦	Yes

Expansion Options

Scalability	2S
PCI Express Revision ⑦	4.0
Max # of PCI Express Lanes ⑦	64

Package Specifications

Sockets Supported ⑦	FCLGA4189
T_{CASE} ⑦	81°C
Package Size	77.5mm x 56.5mm

Advanced Technologies

Intel® Speed Select Technology – Core Power ⑦	Yes
Intel® Speed Select Technology – Turbo Frequency ⑦	Yes
Intel® Deep Learning Boost (Intel® DL Boost) ⑦	Yes
Intel® Speed Select Technology - Performance Profile ⑦	Yes
Intel® Speed Select Technology - Base Frequency ⑦	Yes

High Priority Cores	2
High Priority Core Frequency	3.30 GHz
Low Priority Cores	6
Low Priority Core Frequency	2.60 GHz
Intel® Resource Director Technology (Intel® RDT) ⑦	Yes
Intel® Speed Shift Technology ⑦	Yes
Intel® Turbo Boost Technology ‡ ⑦	2.0
Intel® Hyper-Threading Technology ‡ ⑦	Yes
Intel® Transactional Synchronization Extensions ⑦	Yes
Intel® 64 ‡ ⑦	Yes
Instruction Set Extensions ⑦	Intel® SSE4.2, Intel® AVX, Intel® AVX2, Intel® AVX-512
# of AVX-512 FMA Units ⑦	2
Intel® Volume Management Device (VMD) ⑦	Yes

Security & Reliability

Intel® Crypto Acceleration ⑦	Yes
Intel® Platform Firmware Resilience Support	Yes
Intel® Total Memory Encryption ⑦	Yes
Intel® AES New Instructions ⑦	Yes
Intel® Software Guard Extensions (Intel® SGX) ⑦	Yes with Intel® SPS
Maximum Enclave Page Cache (EPC) Size for Intel® SGX	64 GB
Intel® Trusted Execution Technology ‡ ⑦	Yes
Execute Disable Bit ‡ ⑦	Yes
Intel® Run Sure Technology ⑦	Yes
Mode-based Execute Control (MBEC) ⑦	Yes
Intel® Virtualization Technology (VT-x) ‡ ⑦	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡ ⑦	Yes
Intel® VT-x with Extended Page Tables (EPT) ‡ ⑦	Yes

10./42.

determining the correct classification of your transaction.

Refer to Datasheet for formal definitions of product properties and features.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See http://www.intel.com/content/www/us/en/processors/processor-numbers.html for details.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information and applicability of this technology.

See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html?wapkw=hyper+threading for more information including details on which processors support Intel® HT Technology.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

Company Overview

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11./42.

AOC-STGS-i2T/i1T

SUPERMICR●

The Supermicro AOC-STGS-i2T/i1T are the most feature rich low power dual/single-port 10Gbase-T controllers in the market today. Based on the Intel® X550 chipset with features such as VXLAN and NVGRE, they offer flexible connectivity selection for all networking requirements. The second generation integrated 10GbE MAC+PHY drives down both cost and power enabling a highly cost effective deployment of 10GbE in the data center. With Supermicro® Asset Management and thermal detection to provide an extra layer of security and a peace of mind, the AOC-STGS-i2T/i1T are among the most innovative 10GbE controllers in the market and an excellent choice to expand network connectivity in data centers and enterprise environments.

Key Features:
- **Dual/Single RJ45 Connectors**
- **Low-Profile, Short Length Standard Form Factor**
- PCI Express v3.0 x4 (8GT/s)
- Asset Management Features with thermal sensor
- Intel's second generation, Dual-port/Single-port 10GbE controller with integrated MAC and PHY
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- Unified networking delivering LAN, iSCSI and FCoE over 10GbE
- VXLAN and NVGRE
- VMDq, PCI-SIG SR-IOV for Virtulization Environments
- Intel Ethernet Flow Director for hardware-based application traffic steering
- Data Center Bridging (DCB) with FCoE stateless offload
- Jumbo Frames support up to 15.5KB
- Time Sync IEEE1588
- NC-SI for IPMI support
- RoHS compliant 6/6

AOC-STGS-i2T

AOC-STGS-i1T

STANKA 1.7
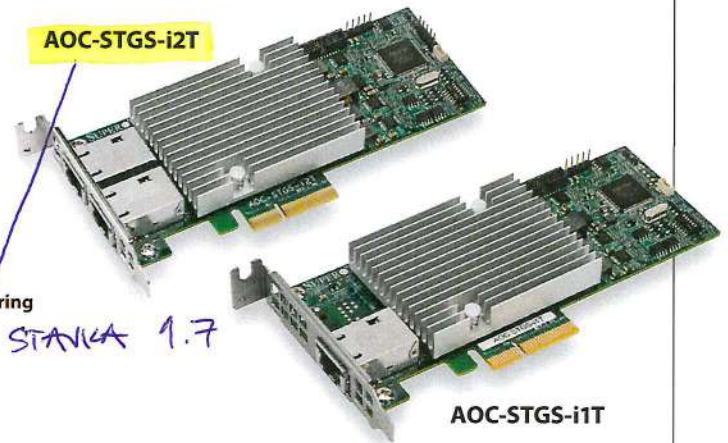
Specifications

- **General:**
  - Intel X550 AT2 (i2T)/X550 AT (i1T) 10GbE controller with integrated MAC and PHY
  - Compact size low-profile standard form factor
  - PCI-E 3.0 x4 (8GT/s, 5GT/s or 2.5GT/s) interface
  - Dual/Single RJ45 connectors with speed up to 10Gb/port
  - Maximum power consumption: 11W (i2T); 9W (i1T)

- **I/O Features:**
  - Intel Flow Director
  - MSI-X Support
  - Multiple Queues: 128 Tx and Rx Per Port
  - TCP/UDP, IPv4 Checksum Offloads
  - RSS for Windows Environment Scalable I/O for Linux Environments
  - IPv6 Support for IP/TCP and IP/UDP Receive Checksum Offload
  - Tx TCP Segmentation Offload
  - FCoE Tx/Rx CRC Offload
  - Large FC Receive
  - FCoE Transmit Segmentation Offloads
  - FCoE Coalescing and Direct Data Placement
  - Support for Packets Up to 15.5KB
  - DMA Coalescing
  - Flow Director Filters:
    - Up to 32 KB – Two Signature Filters
    - Up to 8 KB – Two Perfect-match Filters
  - Receive Side Coalescing (RSC)

- **Virtualization Features:**
  - Multi-mode I/O Virtualization Operations
  - VXLAN
  - NVGRE
  - Virtual Machine Device Queues (VMDq)
  - Next Generation VMDq
  - 64 Transmit (Tx) and Receive (Rx) Queue Pairs Per Port
  - Flexible Port Partitioning: 64 Virtual Functions Per Port
  - Support for PCI-SIG SR-IOV Specification
  - IEEE 802.1Q VLAN

Compliance/Environmental
- RoHS Compliant 6/6, Pb Free

RoHS

- **Remote Boot Options:**
  - Preboot eXecution Environment (PXE) Flash Interface Support
  - Intel Ethernet FCoE Boot
  - Intel Ethernet iSCSI Remote Boot
  - Intel Boot Agent software: Linux boot via PXE or BOOTP, Windows Deployment Services, or UEFI

- **Security and Power Management:**
  - Receive Packet Filtering
  - Integrated IPsec Security Engines for Offloads of up to 1024 Security Associations(SA) for Each Tx and Rx
  - IEEE 802.3az Energy Efficient Ethernet (EEE)
  - LAN Disable Function
  - Anti-spoofing for MAC and VLANs

- **Cable Support:**
  - RJ-45 Category-6 up to 55m; Category-6A up to 100m

- **Operating Conditions:**
  - Operating temperature: 0°C to 55°C (32°F to 131°F)
  - Storage temperature: -40°C to 70°C (-40°F to 158°F)
  - Storage humidity: 90% non-condensing relative humidity at 35°C

- **Physical Dimensions:**
  - Card PCB dimensions: 15cm x 6.89cm (5.9in x 2.71in) (LxW)
  - Height of end brackets: standard – 12cm (4.725in), low-profile – 8cm (3.15in)

- **Weight:**
  - i2T: 120g (0.2645lb); i1T: 111g (0.2455lb)

- **Supported Platforms:**
  - Motherboards with minimum PCI-E 3.0 x4 expansion slot
  - Server Systems with low-profile or full-height PCI-E 3.0 x4 expansion slot
  - NC-SI feature is only supported by Supermicro® motherboards with corresponding NC-SI connectors

Please note that this product is only available to OEM customers and is sold as an integrated solution with Supermicro server systems

For the most current product information, visit:

www.supermicro.com

12/42

Memory - DDR4 1.2V-3200

→ STAVKA 1.4

[8 GB   16 GB   32 GB   64 GB   128 GB]

Part Number	Description	Wide Temp	DRAM Size	# of Ranks	Profile	Buy
MEM-DR432MD-ER32	32GB DDR4-3200 2Rx8 (16Gb) RDIMM	N	16Gb	2	Low Profile	eStore
MEM-DR432LC-ER32	32GB DDR4-3200 2Rx4 RDIMM	N	-	1	Low Profile	eStore
	See Archived List (EOL Memories)					

→ STAVKA 1.4

⚠ NOTE: Supermicro lists these memory modules as a convenience to its general customer base. Supermicro does not make any representations or warranties whatsoever regarding quality, reliability, functionality or compatibility of these memory modules. Further, Supermicro is not obligated to provide any support, installation, or other assistance with regard to these devices. It is recommended that the customer base confirm with the vendor compatibility and revision level of these devices.

NOTE: Under "Wide Temp" field, "Y" indicates supported "Industrial grade" memory modules.

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13./42

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IPMI Resources   Serial Number Guide

Product Manuals   Software Code Library

Security Center   OS Compatibility

OS Certifications :
Super Servers / A+ Servers

Product Matrices

System / Motherboard / Chassis / SuperBlade® / MicroBlade™

Networking AOC Matrix :
Ultra / Standard / SIOM / AIOM / MicroLP / TwinPro

Accessories :
Power Supply / Riser Card / Heatsink / System Fan / Front Chassis Bezels

14/42

System HDD / SSD List
SYS-220P-C9RT

Vendor HDD / SSD List

SAS 3908/3916 SAS/SATA   ▼

[2.5]

Drive List (HDD)

Part Number	Description	Interface	Capacity	Transfer Ra
HDD-2A0T9-3NECR	HDD, 2.5",SAS, 900GB,15K,512N,Enterprise,CMR,STD/Regular	SAS3	900GB	12.0Gb/sec
HDD-2A0T9-3EECR	HDD, 2.5",SAS, 900GB,15K,512E,Enterprise,CMR,STD/Regular	SAS3	900GB	12.0Gb/sec
HDD-2A0T6-2NECR	HDD, 2.5",SAS, 600GB,10K,512N,Enterprise,CMR,STD/Regular	SAS3	600GB	12.0Gb/sec
HDD-2A0T6-2FECR	HDD, 2.5",SAS, 600GB,10K,Fast format,Enterprise,CMR,STD	SAS3	600GB	12.0Gb/sec
HDD-2A0T6-3EECR	HDD, 2.5",SAS, 600GB,15K,512E,Enterprise,CMR,STD/Regular	SAS3	600GB	12.0Gb/sec
HDD-2A0T3-3NECR	HDD, 2.5",SAS, 300GB,15K,512N,Enterprise,CMR,STD/Regular	SAS3	300GB	12.0Gb/sec
HDD-2A0T3-3EECR	HDD, 2.5",SAS, 300GB,15K,512E,Enterprise,CMR,STD/Regular	SAS3	300GB	12.0Gb/sec
HDD-2A2T4-2FECR	HDD, 2.5",SAS, 2.4TB,10K,Fast format,Enterprise,CMR,STD	SAS3	2400GB	12.0Gb/sec
HDD-2A1T8-2FECR	HDD, 2.5",SAS, 1.8TB,10K,Fast format,Enterprise,CMR,STD	SAS3	1800GB	12.0Gb/sec

Drive List (HDD)

Part Number	Description	Interface	Capacity	Transfer Ra
HDD-2A1T2-2NECR	HDD, 2.5",SAS, 1.2TB,10K,512N,Enterprise,CMR,STD/Regular	SAS3	1200GB	12.0Gb/sec
HDD-2A1T2-2FECR	HDD, 2.5",SAS, 1.2TB,10K,Fast format,Enterprise,CMR,STD	SAS3	1200GB	12.0Gb/sec
HDD-2A0T6-3NECR	HDD, 2.5",SAS, 600GB,15K,512N,Enterprise,CMR,STD/Regular	SAS3	600GB	0.0Gb/sec
HDD-2A0T9-2EECR	HDD, 2.5",SAS, 900GB,10K,512E,Enterprise,CMR,STD/Regular	SAS3	900GB	12.0Gb/sec
HDD-2A0T3-2NECR	HDD, 2.5",SAS, 300GB,10K,512N,Enterprise,CMR,STD/Regular	SAS3	300GB	12.0Gb/sec
HDD-2A2T4-2EECR	HDD, 2.5",SAS, 2.4TB,10K,512E,Enterprise,CMR,STD/Regular	SAS3	2400GB	12.0Gb/sec
HDD-2A1T8-2EECR	HDD, 2.5",SAS, 1.8TB,10K,512E,Enterprise,CMR,STD/Regular	SAS3	1800GB	12.0Gb/sec
HDD-2A1T2-2EECR	HDD, 2.5",SAS, 1.2TB,10K,512E,Enterprise,CMR,STD/Regular	SAS3	1200GB	12.0Gb/sec
HDD-2A900-ST900MP0166		SAS3	900GB	12.0Gb/sec
HDD-2A2400-ST2400MM0149		SAS3	2400GB	12.0Gb/sec
HDD-2A1T8-2FECF	HDD, 2.5",SAS, 1.8TB,10K,Fast format,Enterprise,CMR,FIPS	SAS3	1800GB	12.0Gb/sec
HDD-2A0T9-2KECR	HDD, 2.5",SAS, 900GB,10K,4KN,Enterprise,CMR,STD/Regular	SAS3	900GB	12.0Gb/sec
HDD-2A0T9-3EECR	HDD, 2.5",SAS, 900GB,15K,512E,Enterprise,CMR,STD/Regular	SAS3	900GB	12.0Gb/sec
HDD-2A900K-AL14SXB90EA		SAS3	900GB	12.0Gb/sec
HDD-2A600-AL15SEB06EP		SAS3	600GB	12.0Gb/sec
HDD-2A0T6-2EECR	HDD, 2.5",SAS, 600GB,10K,512E,Enterprise,CMR,STD/Regular	SAS3	600GB	12.0Gb/sec

16./42.

Drive List (HDD)

Part Number	Description	Interface	Capacity	Transfer Ra
HDD-2A0T6-3NECR	HDD, 2.5",SAS, 600GB,15K,512N,Enterprise,CMR,STD/Regular	SAS3	600GB	12.0Gb/sec
HDD-2A0T3-3NECR	HDD, 2.5",SAS, 300GB,15K,512N,Enterprise,CMR,STD/Regular	SAS3	300GB	12.0Gb/sec
HDD-2A2400-AL15SEB24EP		SAS3	2400GB	12.0Gb/sec
HDD-2A1T8-2KECR	HDD, 2.5",SAS, 1.8TB,10K,4KN,Enterprise,CMR,STD/Regular	SAS3	1800GB	12.0Gb/sec
HDD-2A1T2-2KECR	HDD, 2.5",SAS, 1.2TB,10K,4KN,Enterprise,CMR,STD/Regular	SAS3	1200GB	12.0Gb/sec

Drive List (non-HDD)

SMCI Part #	Manufacturer	Manufacturer Part #	Interface	Capacity	Buffer
HDS-I2T0-SSDSC2KB960GZ	Intel	SSDSC2KB960GZ	SATA3	960GB	0MB
HDS-I2T0-SSDSC2KG960GZ	Intel	SSDSC2KG960GZ	SATA3	960GB	0MB
HDS-I2T0-SSDSC2KB076TZ	Intel	SSDSC2KB076TZ	SATA3	7680GB	0MB
HDS-I2T0-SSDSC2KB480GZ	Intel	SSDSC2KB480GZ	SATA3	480GB	0MB
HDS-I2T0-SSDSC2KG480GZ	Intel	SSDSC2KG480GZ	SATA3	480GB	0MB
HDS-I2T0-SSDSC2KB038T8	Intel	SSDSC2KB038T8	SATA3	3840GB	0MB
HDS-I2T0-SSDSC2KB038TZ	Intel	SSDSC2KB038TZ	SATA3	3840GB	0MB
HDS-I2T0-SSDSC2KG038TZ	Intel	SSDSC2KG038TZ	SATA3	3840GB	0MB
HDS-I2T0-SSDSC2KB240GZ	Intel	SSDSC2KB240GZ	SATA3	240GB	0MB
HDS-I2T0-SSDSC2KB019T8	Intel	SSDSC2KB019T8	SATA3	1920GB	0MB
HDS-I2T0-SSDSC2KB019TZ	Intel	SSDSC2KB019TZ	SATA3	1920GB	0MB
HDS-I2T0-SSDSC2KG019TZ	Intel	SSDSC2KG019TZ	SATA3	1920GB	0MB
HDS-T2A-KPM6WVUG800G	Kioxia	KPM6WVUG800G	SAS3	800GB	0MB

→ STAV/EA 1.10

17. 42.

Drive List (non-HDD)

SMCI Part #	Manufacturer	Manufacturer Part #	Interface	Capacity	Buffer
HDS-T2A-KPM61VUG1T60	Kioxia	KPM61VUG1T60	SAS3	1600GB	0MB
HDS-M2T-MTFDDAK960TDS-16	Micron	MTFDDAK960TDS-1AW16ABYY	SATA3	960GB	0MB
HDS-M2T-MTFDDAK960TDS1AW	Micron	MTFDDAK960TDS-1AW1ZABYY	SATA3	960GB	0MB
HDS-M2T-MTFDDAK960TDT1AW	Micron	MTFDDAK960TDT-1AW1ZABYY	SATA3	960GB	0MB
HDS-M2T-MTFDDAK960TGA1BC	Micron	MTFDDAK960TGA-1BC1ZABYY	SATA3	960GB	0MB
HDS-M2T-MTFDDAK960TGB1BC	Micron	MTFDDAK960TGB-1BC1ZABYY	SATA3	960GB	0MB
HDS-M2T-MTFDDAK7T6TDS-16	Micron	MTFDDAK7T6TDS-1AW16ABYY	SATA3	7680GB	0MB
HDS-M2T-MTFDDAK7T6TDS1AW	Micron	MTFDDAK7T6TDS-1AW1ZABYY	SATA3	7680GB	0MB
HDS-M2T-MTFDDAK7T6TGA1BC	Micron	MTFDDAK7T6TGA-1BC1ZABYY	SATA3	7680GB	0MB
HDS-M2T-MTFDDAK480TDS1AW	Micron	MTFDDAK480TDS-1AW1ZABYY	SATA3	480GB	0MB
HDS-M2T-MTFDDAK480TDT1AW	Micron	MTFDDAK480TDT-1AW1ZABYY	SATA3	480GB	0MB
HDS-M2T-MTFDDAK480TGA1BC	Micron	MTFDDAK480TGA-1BC1ZABYY	SATA3	480GB	0MB
HDS-M2T-MTFDDAK480TGB1BC	Micron	MTFDDAK480TGB-1BC1ZABYY	SATA3	480GB	0MB
HDS-M2T-MTFDDAK3T8TDS-16	Micron	MTFDDAK3T8TDS-1AW16ABYY	SATA3	3840GB	0MB
HDS-M2T-MTFDDAK3T8TDS1AW	Micron	MTFDDAK3T8TDS-1AW1ZABYY	SATA3	3840GB	0MB

18./42.

Drive List (non-HDD)

SMCI Part #	Manufacturer	Manufacturer Part #	Interface	Capacity	Buffer
HDS-M2T-MTFDDAK3T8TDT1AW	Micron	MTFDDAK3T8TDT-1AW1ZABYY	SATA3	3840GB	0MB
HDS-M2T-MTFDDAK3T8TGA1BC	Micron	MTFDDAK3T8TGA-1BC1ZABYY	SATA3	3840GB	0MB
HDS-M2T-MTFDDAK3T8TGB1BC	Micron	MTFDDAK3T8TGB-1BC1ZABYY	SATA3	3840GB	0MB
HDS-M2T-MTFDDAK240TDS-16	Micron	MTFDDAK240TDS-1AW16ABYY	SATA3	240GB	0MB
HDS-M2T-MTFDDAK240TDS1AW	Micron	MTFDDAK240TDS-1AW1ZABYY	SATA3	240GB	0MB
HDS-M2T-MTFDDAK240TDT1AW	Micron	MTFDDAK240TDT-1AW1ZABYY	SATA3	240GB	0MB
HDS-M2T-MTFDDAK240TGA1BC	Micron	MTFDDAK240TGA-1BC1ZABYY	SATA3	240GB	0MB
HDS-M2T-MTFDDAK1T9TDS-16	Micron	MTFDDAK1T9TDS-1AW16ABYY	SATA3	1920GB	0MB
HDS-M2T-MTFDDAK1T9TDS1AW	Micron	MTFDDAK1T9TDS-1AW1ZABYY	SATA3	1920GB	0MB
HDS-M2T-MTFDDAK1T9TDT1AW	Micron	MTFDDAK1T9TDT-1AW1ZABYY	SATA3	1920GB	0MB
HDS-M2T-MTFDDAK1T9TGA1BC	Micron	MTFDDAK1T9TGA-1BC1ZABYY	SATA3	1920GB	0MB
HDS-M2T-MTFDDAK1T9TGB1BC	Micron	MTFDDAK1T9TGB-1BC1ZABYY	SATA3	1920GB	0MB
HDS-S2T0-MZ7L3960HCJRA7	Samsung	MZ7L3960HCJR-00A07	SATA3	960GB	0MB
HDS-S2T1-MZ7KH960HAJR05	Samsung	MZ7KH960HAJR-00005	SATA3	960GB	0MB
HDS-S2T1-MZ7LH960HAJR05	Samsung	MZ7LH960HAJR-00005	SATA3	960GB	0MB
HDS-S2T1-MZ7LH7T6HMLA05	Samsung	MZ7LH7T6HMLA-00005	SATA3	7680GB	0MB
HDS-S2T0-MZ7L37T6HBLAA7	Samsung	MZ7L37T6HBLA-00A07	SATA3	7600GB	0MB

19. 42.

Drive List (non-HDD)

SMCI Part #	Manufacturer	Manufacturer Part #	Interface	Capacity	Buffer
HDS-S2T0-MZ7L3480HCHQA7	Samsung	MZ7L3480HCHQ-00A07	SATA3	480GB	0MB
HDS-S2T1-MZ7KH480HAHQ05	Samsung	MZ7KH480HAHQ-00005	SATA3	480GB	0MB
HDS-S2T1-MZ7LH480HAHQ05	Samsung	MZ7LH480HAHQ-00005	SATA3	480GB	0MB
HDS-S2T0-MZ7LH3T8HMLT05	Samsung	MZ7LH3T8HMLT-00005	SATA3	3840GB	0MB
HDS-S2T1-MZ7LH3T8HMLT05	Samsung	MZ7LH3T8HMLT-0005	SATA3	3840GB	0MB
HDS-S2T0-MZ7L33T8HBLTA7	Samsung	MZ7L33T8HBLT-00A07	SATA3	3800GB	0MB
HDS-S2T1-MZ7KH3T8HALS05	Samsung	MZ7KH3T8HALS-00005	SATA3	3800GB	0MB
HDS-S2T0-MZ7L3240HCHQA7	Samsung	MZ7L3240HCHQ-00A07	SATA3	240GB	0MB
HDS-S2T1-MZ7KH240HAHQ05	Samsung	MZ7KH240HAHQ-00005	SATA3	240GB	0MB
HDS-S2T1-MZ7LH240HAHQ05	Samsung	MZ7LH240HAHQ-00005	SATA3	240GB	0MB
HDS-S2T1-MZ7LH240HAHQ05	Samsung	MZ7LH240HAHQ-0005	SATA3	240GB	0MB
HDS-S2T0-MZ7L31T9HBLTA7	Samsung	MZ7L31T9HBLT-00A07	SATA3	1920GB	0MB
HDS-S2T1-MZ7KH1T9HAJR05	Samsung	MZ7KH1T9HAJR-00005	SATA3	1920GB	0MB
HDS-S2T1-MZ7LH1T9HMLT05	Samsung	MZ7LH1T9HMLT-00005	SATA3	1920GB	0MB
HDS-X2A-XS960SE70084	Seagate	XS960SE70084	SAS3	960GB	0MB
HDS-X2A-XS800LE70084	Seagate	XS800LE70084	SAS3	800GB	0MB
HDS-X2A-XS800ME70084	Seagate	XS800ME70084	SAS3	800GB	0MB
HDS-X2A-XS7680SE70084	Seagate	XS7680SE70084	SAS3	7680GB	0MB
HDS-X2A-XS6400LE70084	Seagate	XS6400LE70084	SAS3	6400GB	0MB
HDS-X2A-XS400ME70084	Seagate	XS400ME70084	SAS3	400GB	0MB
HDS-X2A-XS3840SE70084	Seagate	XS3840SE70084	SAS3	3840GB	0MB
HDS-X2A-XS3200LE70084	Seagate	XS3200LE70084	SAS3	3200GB	0MB
HDS-X2A-XS3200ME70084	Seagate	XS3200ME70084	SAS3	3200GB	0MB
HDS-X2A-XS1920SE70084	Seagate	XS1920SE70084	SAS3	1920GB	0MB

Drive List (non-HDD)

SMCI Part #	Manufacturer	Manufacturer Part #	Interface	Capacity	Buffer
HDS-X2A-XS1600LE70084	Seagate	XS1600LE70084	SAS3	1600GB	0MB
HDS-X2A-XS1600ME70084	Seagate	XS1600ME70084	SAS3	1600GB	0MB
HDS-X2A-XS15360SE70084	Seagate	XS15360SE70084	SAS3	15360GB	0MB

See Archived List (EOL SKUs)

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21.42.

SUPERMICRO (/en)

Storage

(/en/products/storage)   PCI-E SSD   ⌄

Supermicro Servers Support PCI-E SSD Solutions

Intel® NVMe	HGST SSDs	Micron NVMe	Samsung NVMe
/products/storage/pci-e)	(/en/products/storage/pci-e/hgst)	(/en/products/storage/pci-e/micron)	(/en/products/storage/pci-e/samsung)

Supermicro NVMe Servers Solutions (/en/products/nvme)

KIOXIA NVMe® SSDs

Leveraging state-of-the-art BiCS FLASH™ 3D flash memory with inhouse designed controllers and firmware, KIOXIA SSDs are designed to meet the demands of mission critical applications in enterprise data center environments and cloud-based applications running on scale-out and traditional server deployments. These series of SSDs are optimized for high performance, endurance, low latency, data protection and reliability for highly transactional, high-bandwidth workloads.

Key Applications:

- Data warehousing
- Online transaction processing (OLTP)
- Business intelligence
- Artificial intelligence (AI) and machine learning
- Hyperscale
- IoT and big data analytics
- Virtualized environments
- Streaming media content delivery networks (CDN)

CM6 Series Enterprise NVMe SSD

The CM6 Series SSDs are optimized to support a broad range of enterprise applications and workloads. Built on PCIe® 4.0 and NVMe 1.4 technology, CM6 Series SSDs deliver excellent performance up to 1.4M IOPS (4K random read) and 350 KIOPS (4K random write), with maximum power consumption of 25 W.

SMCI P/N	Manufacturer P/N	Description
HDS-TUN-KCM6XRUL960G	KCM6XRUL960G	KIOXIA CM6 960GB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 1DWPD
HDS-TUN-KCM6XRUL1T92	KCM6XRUL1T92	KIOXIA CM6 1.92TB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 1DWPD
HDS-TUN-KCM6XRUL3T84	KCM6XRUL3T84	KIOXIA CM6 3.84TB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 1DWPD
HDS-TUN-KCM6XRUL7T68	KCM6XRUL7T68	KIOXIA CM6 7.68TB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 1DWPD
HDS-TUN-KCM6XRUL15T3	KCM6XRUL15T3	KIOXIA CM6 15.36TB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 1DWPD
HDS-TUN-KCM6XVUL800G	KCM6XVUL800G	KIOXIA CM6 800GB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 3DWPD
HDS-TUN-KCM6XVUL1T60	KCM6XVUL1T60	KIOXIA CM6 1.6TB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 3DWPD
HDS-TUN-KCM6XVUL3T20	KCM6XVUL3T20	KIOXIA CM6 3.2TB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 3DWPD
HDS-TUN-KCM6XVUL6T40	KCM6XVUL6T40	KIOXIA CM6 6.4TB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 3DWPD
HDS-TUN-KCM6XVUL12T8	KCM6XVUL12T8	KIOXIA CM6 12.8TB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 3DWPD

CD6 Series Data Center NVMe SSD

23.42.

The CD6 Series data center NVMe SSDs are optimized to support a broad range of scale-out and cloud applications, including big data/IoT, online transaction processing and virtualization. Built with a PCIe 4.0 x4 interface and NVMe 1.4 technology, CD6 Series SSDs deliver consistent performance up to 1M IOPS (4K random read) and 250 KIOPS (4K random write), with active power consumption of 13-19 W.

SMCI P/N	Manufacturer P/N	Description
HDS-TUN0-KCD6XLUL960G	KCD6XLUL960G	KIOXIA CD6 960GB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 1DWPD
HDS-TUN0-KCD6XLUL1T92	KCD6XLUL1T92	KIOXIA CD6 1.92TB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 1DWPD
HDS-TUN0-KCD6XLUL3T84	KCD6XLUL3T84	KIOXIA CD6 3.84TB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 1DWPD
HDS-TUN0-KCD6XLUL7T68	KCD6XLUL7T68	KIOXIA CD6 7.68TB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 1DWPD
HDS-TUN0-KCD6XLUL15T3	KCD6XLUL15T3	KIOXIA CD6 15.36TB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 1DWPD
HDS-TUN0-KCD6XVUL800G	KCD6XVUL800G	KIOXIA CD6 800GB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 3DWPD
HDS-TUN0-KCD6XVUL1T60	KCD6XVUL1T60	KIOXIA CD6 1.6TB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 3DWPD
HDS-TUN0-KCD6XVUL3T20	KCD6XVUL3T20	KIOXIA CD6 3.2TB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 3DWPD
HDS-TUN0-KCD6XVUL6T40	KCD6XVUL6T40	KIOXIA CD6 6.4TB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 3DWPD

24/42

SMCI P/N	Manufacturer P/N	Description
HDS-TUN0-KCD6XVUL12T8	KCD6XVUL12T8	KIOXIA CD6 12.8TB NVMe PCIe 4x4 BiCS4 2.5" 15mm SIE 3DWPD

XG6 and XG6-P Series Client NVMe SSD (M.2)

Utilizing the latest 96-layer BiCS FLASH™ 3D flash memory, the XG6 NVMe SSDs is available in a M.2 2280, single-sided form factor with PCIe 3x4 interface, supporting the NVMe command set. This provides a powerful combination power efficiency and high performance, consuming 4.7W or less with over 3,000 MB/s sequential read performance, respectively.

The XG6-P series is available in 2,048GB capacity and has higher sequential write bandwidth than the previous generation. This M.2 2280 series is designed for high-end workstations, gaming systems and for cost-optimized composable data center infrastructures.

Both the XG6 and XG6-P series offers a Self-encrypting Drive (SED) option that supports TCG Opal version 2.01, under a different model number.

25./42.

M.2 2280   M.2 2280

XG6 Series   XG6-P Series

SMCI P/N	Manufacturer P/N	Description
HDS-TMN0-KXG60ZNV1T02	KXG60ZNV1T02	KIOXIA XG6 1TB NVMe M.2 22x80mm <1DWPD
HDS-TMN0-KXG60ZNV256G	KXG60ZNV256G	KIOXIA XG6 256GB NVMe M.2 22x80mm <1DWPD
HDS-TMN0-KXG60ZNV512G	KXG60ZNV512G	KIOXIA XG6 512GB NVMe M.2 22x80mm <1DWPD
HDS-TMN0-KXG60PNV2T04	KXG60PNV2T04	KIOXIA XG6-P 2TB NVMe M.2 22x80mm 0.3DWPD

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Global SKU (/products/nfo/SMC_Global_SKUs.cfm?mlg=0)   English ⌄

26.142.

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Company Profile (/en/about)
Green Computing (/en/about/green-computing)
Investor Relations (https://ir.supermicro.com/)
Careers (/en/jobs)
Site Map (/about/sitemap?mlg=0)

News

Press Releases (/en/news#press-releases)
Supermicro in the News (/en/news#news)
Product Reviews (/en/news#product-reviews)
Events (/en/news#events)
Webinars (/en/news#webinars)

Resources

Product Briefs (/en/news/resources/product-briefs)
Solution Briefs (/en/news/resources/brief)
Success Stories (/en/news/resources/success)
Videos (/en/news/resources/videos)
White Papers (/en/news/resources/white-paper)
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(/en/news/newsletter-sign-up)

(https://www.facebook.com/Supermicro)

(https://twitter.com/Supermicro_SMCI)

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(https://www.instagram.com/supermicro_smci/)

(https://www.youtube.com/supermicro)

28/42.

Add-on Card AOC-S3908L-H8IR (-16DD/-32DD), AOC-S3916L-H16IR (-32DD)

Specifications

29./42.

Add-on Card

Supermicro 12Gb/s Multi-Port SAS PCIe Gen 4.0 Internal RAID Adapter

The Supermicro MegaRAID Low Profile **AOC-S3908L-H8iR** features 8 internal SAS connectors and **AOC-S3916L-H16iR** features 16 internal SAS connectors for high-performance storage connectivity. These RAID cards are built on the Broadcom SAS IC technology and proven MegaRAID technology. They address the growing demand for increased data throughput and scalability requirements across the enterprise-class server platforms. With high performance RAID architecture, including hardware RAID 5 and 6, these new RAID controller cards support high capacity storage applications. They deliver **cost-effective** storage solutions using SATA drives and **maximum performance and reliability** with SAS drives.

With the option of the **BTR-CVPM05** SuperCap/TFM unit, it provides **cached data protection** and allows system builders to protect cached data even during the most catastrophic system failures.

Using expander backplanes, they support up to **16, 32 & 240 drives** (depending on SKU) w/ RAID 0, 1, 5, 6, 10, 50 and 60.

AOC SKU	Description
AOC-S3908L-H8iR	8 internal SAS3 ports, Supports up to **240** physical devices w/ expander, **1x** SlimSAS x8 black (100-Ohm) connector
AOC-S3908L-H8iR-16DD	**8** internal SAS3 ports, Supports up to **16** physical devices w/ expander, **1x** SlimSAS x8 black (100-Ohm) connector
AOC-S3908L-H8iR-32DD	**8** internal SAS3 ports, Supports up to **32** physical devices w/ expander, **1x** SlimSAS x8 black (100-Ohm) connector
AOC-S3916L-H16iR	**16** internal SAS3 ports, Supports up to **240** physical devices w/ expander, **2x** SlimSAS x8 black (100-Ohm) connectors
AOC-S3916L-H16iR-32DD	**16** internal SAS3 ports, Supports up to **32** physical devices w/ expander, **2x** SlimSAS x8 black (100-Ohm) connectors

Key Features

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Low profile x8 PCIe Gen 4.0 root complex interface
Supports RAID 0, 1, 5, 6, 10, 50, 60
8GB DDR4 onboard cache memory – 2666MHz
Power consumption: 14 Watts for AOC-S3908L-H8iR & 18 Watts for AOC-S3916L-H16iR
Supports 3.0, 6.0 and 12.0 Gb/s SAS data transfer rates and 3.0 & 6.0 Gb SATA
Support for MCTP over PCIe
Cachevault to protect onboard cache memory
Supercap - BTR-CVPM05 (Optional)
TFM – Included on-board
Supports advanced software Encryption - included
Supports in LSA Storage Authority Software WebGUI
Secure boot
UEFI Configuration utility
OS Support: Windows/Linux
Dimensions: 2.71" x 6.6" (H x L)
Thermal operating range: System dependent (55°C or higher w/ enough airflow)

Dimensions

L x W
2.7" x 6.6"

Validated Platforms

Servers/Serverboards
AS -1114S-WN10RT
AS -2024S-TR
AS -2124GQ-NART
SYS-110P-WTR
SYS-120U-TNR
SYS-220BT-DNTR
SYS-220U-MTNR
SYS-220U-TNR
SYS-420GP-TNR
SYS-510P-M
SYS-510P-WTR
SYS-520P-WTR
SSG-6049SP-DE1CR90
SSG-6049SP-E1CR60
SYS-620BT-DNTR
SSG-620P-ACR12H
SYS-620U-TNR
SYS-740GP-TNRT
SYS-F610P2-RTN
SYS-F620P3-RTBN
H12DSU-iN
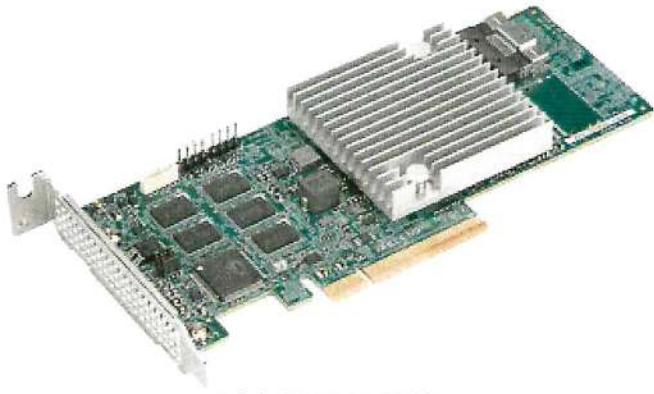H12DSU-iNR
H12SSFF-AN6
M12SWA-TF
X11SCZ-F
X12DPT-PT6
X12SPL-F
X12SPL-LN4F
X12SPO-F

Downloads

30./42.

AOC-S3908L-H8iR

AOC-S3916L-H16iR

Compatible with Supermicro motherboards only.

Compliance
RoHS
RoHS Compliant 6/6, Pb Free

Parts List

User's Guide
[Download]
Driver
[Download]
Firmware
[Download]

Tested Hard Drives
Tested HDD/SSD
[Tested HDD List]

31./42.

Add-on Card AOC-SLG3-2H8M2, AOC-SLG3-2NM2, AOC-SLG3-2SM2

Specifications

Add-on Card

Supermicro Low Profile 2x Hybrid NVMe/SATA M.2 RAID Carrier

The Supermicro MegaRAID Low Profile AOC-SLG3-2H8M2 is an M.2 SSD carrier card that enables the user to add up to two NVMe or SATA M.2 SSDs to any X11, X12, H11, or H12 motherboard. M.2 solid state technology is an optimized, high-performance, scalable storage solution, effectively streamlined for enterprise and client systems that leverage the cutting-edge power of PCI Express.

AOC-SLG3-2H8M2 supports adjustable stand-offs in 22110, 2280 and 2242 M.2 SSD with RAID 0 and RAID 1.
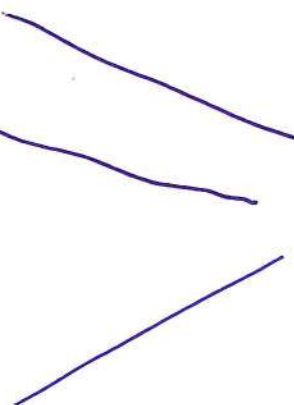
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This product is only available through Supermicro.
Compatible with Supermicro motherboards only.

Compliance

RoHS
RoHS Compliant 6/6, Pb Free

32./42.

Key Features

Broadcom SAS3408 Tomcat I/O RAID Controller
x8 PCIe Gen3 Host interface
Dual M-Key sockets (for 2x M.2 SSD)
Adjustable stand-offs supporting 22110, 2280, &
2242 M.2 SSD form factors
Supports RAID 0, 1
BMC-enabled management
Secure boot
On-board LEDs for SSD Activity and Status
UEFI Configuration utility
Thermal operating range: System dependent (55°C
or higher w/ enough airflow)

Dimensions

H x L
2.71" x 6.6"

Validated Platforms

Servers/Serverboards
AS -1014S-WTRT
AS -1124US-TNRP
AS -2014CS-TR
SYS-1029U-TR25M
SYS-110P-WTR
SYS-120U-TNR
SYS-510P-M
SYS-510P-WTR
SYS-610U-TNR
SYS-730A-I
SYS-740A-T
H11DST-B
H12DST-B
H12DSU-iN
H12DSU-iNR
H12SST-PS
H12SSW-iNR
H12SSW-NT
H12SSW-NTR
X11DPH-I
X11DPH-T
X11DPH-TQ
X11DPU
X11SPH-nCTF
X11SPH-nCTPF
X11SPW-CTF
X11SPW-TF
X12DPI-N6
X12DPI-NT6
X12DPU-6
X12SPO-F
X12SPW-F

Downloads

User's Guide
[Download]
Driver
[Download]

33./42

Firmware
[Download]

Tested Drives

Tested M.2
[View List]

Parts List

34./42

SuperServer OS Certification Matrix

* Listed certification OS is valid for the posted release and any subsequent minor updates. Please refer to vendor's officially HCL for all supported list.

OS Certifications

System	Form	Type	Socket	# of P	Motherboard	WHQL	RHEL/Ubuntu/SUSE/Oracle/SAP	VMwa
							*	*
SYS-220P-C9RT	2U	Mainstream DP	DP	P+	X12DPi-NT6	Windows Server 2022 Windows Server 2019	RHEL 9.0 RHEL 8.2 Oracle Linux 8.3	-

SETNIGA 1, 13

Showing 1 to 1 of 1 entries

Contact / Services

📠 Tech Support Contact

🏹 Submit Your Issue

☑ Take a Survey

🔁 24 Hour SuperServer Hotline

👤 Onsite Services

🛒 eStore

35./42

Additional Resources

Supermicro Downloads

IPMI Resources

Product Manuals

Security Center

OS Certifications :
Super Servers / A+ Servers

BIOS List : Intel / AMD

Serial Number Guide

Software Code Library

OS Compatibility

Product Matrices

System / Motherboard / Chassis / SuperBlade® / MicroBlade™

Networking AOC Matrix :
Ultra / Standard / SIOM / AIOM / MicroLP / TwinPro

Accessories :
Power Supply / Riser Card / Heatsink / System Fan / Front Chassis Bezels

36./42

Supermicro Limited Warranty

- Limited warranty
- Warranty void conditions
- Product returns
- RMA requirements
- Return for credit
- DOA conditions
- Replacement conditions
- Out-of-warranty service
- Cancellations
- Warranty exclusions
- Disclaimer of warranty
- Limitation of liability
- Free extended warranty for complete systems

LIMITED WARRANTY

Super Micro Computer, Inc. ("Supermicro") warrants its products, if properly used and installed, to be free from defects in material and workmanship for a period of time detailed below from the date of Supermicro's invoice. A further 90-day warranty grace period is granted upon the respective expiration of the labor and parts warranty period specified herein. This limited warranty applies only to the original purchasers of Supermicro's products who are direct customers or distributors of Supermicro ("Customer").

- **SuperServer and SuperBlade products**:** Supermicro provides a three-year warranty for labor and one-year warranty for parts. This limited warranty includes advance part replacement service covering a period of 1 year from Supermicro invoice date.

- **Other server products:** Special warranty terms shall apply and will be indicated in each specific product purchase orders' corresponding invoices. In the absence of such special warranty terms, the warranty terms set forth above for SuperServer and SuperBlade products shall apply.

- **Motherboard, Chassis, Power supplies and Super Barebone products:** Supermicro provides a three-year warranty for labor and one-year warranty for parts. This limited warranty includes

advance part replacement service covering a period of 30 days from Supermicro invoice date.

Upon expiration of the one-year parts warranty, the remaining 2-year labor warranty covers general technical support including, but not limited to, general RMA requests, phone support, one-way shipping and handling, but does not include labor specifically associated with the repair or replacement of out-of-warranty parts for which additional service charges will apply.

If returned products are: a) within the warranty period, b) accompanied by the proper Return Materials Authorization ("RMA") and c) defective as determined by Supermicro; Supermicro will, at its option: 1) repair the defective product within 10 working days, 2) replace the defective product with a refurbished product or 3) issue a credit to the Customer for the current value of the product. For purposes of this Limited Warranty, "refurbished" means a product or part that has been returned to its original specifications. Supermicro has no obligation to repair or replace parts beyond the one-year warranty period; however, Supermicro may repair or replace provided that 1) Customer pays for the cost of obtaining the part(s) and 2) the part(s) are available for purchase.

WARRANTY VOID CONDITIONS

This limited warranty does not cover any failure(s) or defect(s) caused by misuse, accident, abnormal or unusually heavy use, improper packaging or handling, neglect, abuse, alteration, improper installation, unauthorized repair or modification, improper testing or causes external to the product such as, but not limited to, excessive heat or humidity, power failures, power surges or acts of God. This limited warranty will be void if evidence is seen of screw holes created by Customer, burned-out chips, more than four wires are broken, evidence of repair work performed or damage caused by a party other than Supermicro. This limited warranty does not cover expendable components, any software supplied by Supermicro, any experimental or developmental products, compatibility issues with other hardware and software products introduced after the time of purchase, or products or accessories not manufactured by Supermicro. Under no circumstances will Supermicro be responsible for other costs associated with product replacement or repair, such as labor, installation or other costs incurred by the Customer.

PRODUCT RETURNS

In the event that a product needs to be returned to Supermicro for warranty service, the Customer must first obtain a RMA number from Supermicro. The RMA number must be clearly printed on the outside of the box in which the product is returned. Supermicro will not accept any shipment without an RMA number.

38,14i

After processing an RMA request, Supermicro reserves the right to request the total cost of the replacement products or the actual products itself if Supermicro later determines it to have sustained damage through actions of the Customer.

RMA REQUIREMENTS

The Customer must supply the following information to Supermicro to obtain an RMA number: invoice date, invoice number, product model name, serial number and reason for return. RMA number will become void if the product it covers is not received by Supermicro within 30 days after the RMA number is issued. When returning a product for RMA, Customer must ship with freight prepaid, include in the box a copy of the original invoice and a detailed note describing the problem. Customer must also make sure the RMA number is clearly marked on the outside of the box. All RMAs must be returned in the products' original packaging.

RETURN FOR CREDIT

Defective or DOA Products may be returned for credit within 30 days from Supermicro's invoice date. Credit will only be issued if returned products are in brand new condition. Supermicro will charge a restocking fee of an amount no less than 15% of the original purchase price for any returned product that is non-defective or arrives with an incomplete package. Supermicro will allow a 10-day period for shipment of a returned product to reach Supermicro.

DOA CONDITIONS

Customer must notify Supermicro according to Sections 3 and 4 above of all DOA ("Dead On Arrival") products within 120 days from the invoice date for advance part replacement service with the exception of Super Server products. Advance part replacement service period for DOA Super Server products is as set forth in Section 1 above.

REPLACEMENT CONDITIONS

All product replacements are subject to quantity available in Supermicro stock. If Supermicro does not have stock to replace the returned products, Supermicro shall have at least 30 days to manufacture and replace the returned products.

39./42

OUT-OF-WARRANTY

SERVICE - Upon expiration of the aforementioned limited warranties, Supermicro may provide additional services up to 2 years from the date of expiration subject to additional charges. Supermicro shall have the option to replace defective products with refurbished or functionally equivalent products in the event that Supermicro determines, in its sole discretion, that a repair is impracticable. Customer shall pay for all shipping, service, parts, and other charges associated with out-of-warranty services.

CANCELLATIONS

A cancelled order will be subject to a cancellation charge of an amount of 15% of the total order amount.

WARRANTY EXCLUSIONS

Supermicro's warranty policy does not include products intended for OEM/ODM distribution or refurbished products and does not cover server semiconductor components and third party components including but not limited to CPU socket pins, chipsets and processors.

DISCLAIMER OF WARRANTY

Except as specified in this warranty, Supermicro disclaims all other warranties, express or implied including, but not limited to any implied warranties of merchantability or fitness for a particular purpose. To the extent an implied warranty cannot be excluded, such warranty is limited in duration to the express warranty period. Some jurisdictions do not allow the exclusion of implied warranties or limitations on how long an implied warranty lasts, the above limitations may not apply.

LIMITATION OF LIABILITY

Supermicro's liability under this, or any other warranty, implied or express, is limited to repair, replacement or refund. In no event will Supermicro be liable for indirect, special, incidental, or consequential damages however caused and regardless of the theory of liability including, but not limited to, lost profits, downtime, goodwill, damage to or replacement of equipment and property, and any costs of recovering, reprogramming, or reproducing any document or data stored in or used with a system containing this product. Some states or jurisdictions do not allow limitation or exclusion of consequential or incidental damages thus the above limitation may not apply.

40./42

FREE EXTENDED WARRANTY FOR COMPLETE SYSTEMS

Supermicro offers free Extended Warranty for Standard Systems installed with CPU, Memory, and HDD/SSD from standard system 3-1-1 (three years labor, one year parts, one year cross-shipment) to 3-3-1 (three years labor and parts, one year cross-shipment). → STANKA 1.14

Terms And Conditions

- Must use **Standard** Supermicro SuperServer, SuperStorage, A+ Servers, and SuperBlade / MicroBlade with validated CPU/Memory/Storage Drive.

- Configuration cannot include any EOL or special promotion items.

- Configuration should ONLY include Supermicro certified/tested parts.

- This free extended warranty will be reviewed and subject to approval by Supermicro. Customers should contact Supermicro sales for details.

- The free extended warranty will not affect other Extended Warranty nor On-Site Service programs.

Contact / Services

☎ Tech Support Contact
🕘 24 Hour SuperServer Hotline
✈ Submit Your Issue
👤 Onsite Services
☑ Take a Survey
🛒 eStore

Additional Resources

Supermicro Downloads
IPMI Resources
Product Manuals
Security Center
OS Certifications :
Super Servers / A+ Servers

BIOS List : Intel / AMD
Serial Number Guide
Software Code Library
OS Compatibility

Product Matrices

System / Motherboard / Chassis / SuperBlade® / MicroBlade™
Networking AOC Matrix :

41./42

Ultra / Standard / SIOM / AIOM / MicroLP / TwinPro

Accessories :

Power Supply / Riser Card / Heatsink / System Fan / Front Chassis Bezels

42./42