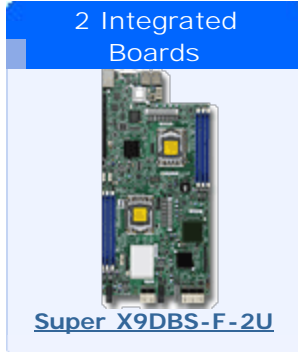


SuperStorage 2027B-DE2R24L (Complete System Only)



Available Colors: Black

Due to the complexity of integration, this product is sold as completely assembled systems only (including 4x CPU, 4x MEM, 1x Hard Disk Drive). Please contact your Supermicro sales rep for special requirements.

Key Features

Two **hot-pluggable** systems (nodes) in a 2U form factor. Each node supports the following:

1. Dual socket B2 (LGA 1356) supports Intel® Xeon® processor E5-2400 v2
2. Up to 192GB DDR3 1600MHz ECC reg. DIMM; 6x DIMM slots (3 per CPU)
3. 3x PCI-E 3.0 slots per node (can be used for host or storage expansion)
4. I/O ports: 2 GbE LAN (1 for IPMI 2.0 w/ Virtual Media/KVM over LAN), SAS 2.0 (6Gbps) x1 JBOD ports
5. Dedicated node to node connectivity featuring high performance PCI-E 3.0 x8 and IPMI for robust node fail-over support
6. 24x Hot-swap 2.5" SAS2 HDD bays
Internal 2x SAS/SATA ports for OS load on SLC SATA DOM
7. 920W Redundant Power Supplies
Platinum Level Certified

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

Specifications

Product SKUs

SSG-2027B-DE2R24L ■ SuperStorage 2027B-DE2R24L (Black)

Motherboard

2x Super X9DBS-F-2U

Processor/Cache

CPU ■ Dual Socket B2 (LGA 1356)
 ■ Intel® Xeon® processor E5-2400 v2
 ■ Up to 95W TDP

Cache ■ Up to 25MB

System Bus ■ QPI up to 8 GT/s

System Memory (per Node)

Memory Capacity ■ 6x 240-pin DIMM slots
 ■ Supports up to 192GB DDR3 ECC Registered memory
 ■ Memory Mirroring supported

Chassis

Form Factor ■ 2U Rackmount

Model ■ CSE-927ETS

Dimensions

Height ■ 3.5" (88mm)

Width ■ 17.2" (437mm)

Depth ■ 26.75" (679mm)

Gross Weight ■ 85 lbs (38.6 kg)

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button
 ■ System Reset button
 ■ Alarm Mute Switch

LEDs ■ Power LED
 ■ Hard Drive Activity LED
 ■ 2x Network Activity LED
 ■ System Overheat LED
 ■ Power Fail LED

Memory Type	<ul style="list-style-type: none"> 1866/1600/1333/1066/800MHz ECC Registered / ECC or Non ECC Unbuffered DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs NVDIMM support. (Not all vendor's NVDIMM are supported. Please contact your sales representative for details)
DIMM Sizes	<ul style="list-style-type: none"> 1GB, 2GB, 4GB , 8GB , 16GB , 32GB
Memory Voltage	<ul style="list-style-type: none"> 1.5 V / 1.35V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory) Supports Intel® x4 and x8 Single Device Data Correction (SDDC)

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C602J chipset
SAS/SATA*	<ul style="list-style-type: none"> LSI 2308 SAS2 (6Gbps)
SAS2 Expander	<ul style="list-style-type: none"> Scalability through cascading 6Gb SAS2/SATA2 HDD support Inband SES-2 Enclosure Management
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support Nuvoton WPCM450 BMC
Network Controllers	<ul style="list-style-type: none"> Intel® i350 Dual-Port Gigabit Ethernet Controller Intel® I/OAT 3 support for fast, scaleable, and reliable networking VMDq support for better performance of virtualization
Graphics	<ul style="list-style-type: none"> Matrox G200eW 16 MB DDR2
Super I/O	<ul style="list-style-type: none"> Winbond 83527HF chip
Others	<ul style="list-style-type: none"> PCI-E 3.0 x8 node to node/NTB connectivity PLX Technology PEX8717; PLX ExpressNIC SDK available from PLX. NDA required

Expansion Slots (per Node)

PCI-Express	<ul style="list-style-type: none"> 3x PCI-E 3.0 x8 slots (on riser)
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Input / Output (per Node)

SAS	<ul style="list-style-type: none"> 1x JBOD expansion port per node (mini-SAS HD)
LAN	<ul style="list-style-type: none"> 2x RJ45 LAN ports
USB	<ul style="list-style-type: none"> 2x USB rear ports (via KVM cable) 1x USB on-board (TypeA)
VGA	<ul style="list-style-type: none"> 1x VGA Port (via KVM cable)
Serial Port / Header	<ul style="list-style-type: none"> 1x console port (via KVM cable); Board to Board serial port connection available for management

System BIOS

BIOS Type	<ul style="list-style-type: none"> 16MB SPI Flash EEPROM with AMI® BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) PCI 2.3 ACPI up to 5.0 USB Keyboard support

* SATA support requires interposer

Drive Bays

Hot-swap	<ul style="list-style-type: none"> 24x Hot-swap 2.5" Drive Bays shared between server nodes SAS or enterprise SATA HDD only recommended SATA drives require LSI interposer
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Backplane

SAS2 dual Expander Backplane, features:	<ul style="list-style-type: none"> Scalability through cascading 6Gb SAS2/SATA2 HDD support Inband SES-2 Enclosure Management Redundancy dual ported SAS architecture Robust AirMax server node connections (SBB specification)
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System Cooling

Fans	<ul style="list-style-type: none"> 10x PWM Fans
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Power Supply

920W Redundant High-Efficiency Power Supplies w/ Power Distributor, PMBus 1.2, I²C, and PFC

AC Input	<ul style="list-style-type: none"> 100-240 V, 50-60 Hz, 11-4.5 Amp
DC Output	<ul style="list-style-type: none"> +5V standby: 4A +12V: 75A
With Power Distributor	<ul style="list-style-type: none"> +5V: 45A +3.3V: 24A -12V: 0.6A

Certification	 Platinum Certified [Test Report]
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PC Health Monitoring

CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, +1.5V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Voltages. 5+1-switching voltage regulator
FAN	<ul style="list-style-type: none"> Total of 10 fan headers supporting up to 10 fans
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment Thermal Control for 10x fan connectors PECI

Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> Operating Temperature: 10°to 35°C (50°to 95°F) Non-operating Temperature: -40°to 70°C (-40°to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5 to 95% (non-condensing)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X9DBS-F-2U	2	Super X9DBS-F-2U Motherboard
	CSE-927ETS	1	2U Chassis
Add-On Card	AOM-S2308-L8I-SB	2	AOM-S2308-L8i-SB
Backplane	BPN-SAS-927	1	SC927 24 x 2.5HDD BPN
Cable 1	CBL-0160L	2	NEMA5-15P to C13 US power cord 16AWG 6ft, PBF (default for high watt)
Cable 2	CBL-PWCD-0160-IS	2	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH
Cable 3	CBL-0218L	2	11.5CM KVM/SUVI 36 PIN TO 9 PIN/15 PIN 2USB, 30/28AWG
CD	CDR-X9	1	Driver CD for X9 series
Power Distributor	PDB-PT927-SG	2	SC927 PDB Input +12V and 5Vsb and output with additional 5V
Power Supply	PWS-920P-SQ	2	920W 1U Redundant PWS W/ Quiet Mode
Riser Card	RSC-R2US-3E8R	2	RSC-R2US-3E8R
Heatsink / Retention	SNK-P0037P	2	1U PASSIVE CPU HS FOR INTEL LGA1366 (HTP)
Heatsink / Retention	SNK-P0038P	2	2U+ PASSIVE CPU HS FOR INTEL LGA1366 X8 MB
Fan	FAN-0088L4	10	40x56, 4 Pin PWM Fan Assembly for SC513F, 515, 823M
Tray(s)	MCP-220-92701-0N	24	Support 2.5" SATA/SAS/SSD HDD tray with LSI converter bkt
Tray(s)	MCP-220-92702-0N	1	SC927 2U motherboard tray supporting 3LP

Optional Parts List

	Part Number	Qty	Description
Add-on Card	AOC-LSISS9252	-	L3-25111-00C LSISS9252 SAS-TO-SATA INTERPOSER, 2.5"/3.5" HD
Cable	CBL-SAST-0547	-	0.5m external Mini SAS HD to external IPASS. 30AWG,HF,RoHS/REACH,PBF
Cable	CBL-SAST-0548	-	1m external Mini SAS HD to external IPASS. 28AWG,HF,RoHS/REACH,PBF
Cable	CBL-SAST-0549	-	3m external Mini SAS HD to external IPASS. 28AWG,HF,RoHS/REACH,PBF