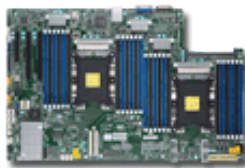


SuperStorage 6029P-E1CR24H (Complete System Only)



Integrated Board



Super X11DSC+

Views: | [Angled View](#) | [Top View](#) |
| [Front View](#) | [Rear View](#) |

Key Features

- Corporate Database
- Database Processing & Storage
- Enterprise Server
- HPC, Data Center
- iSCSI SAN

1. Dual Socket P (LGA 3647) support
2nd Gen Intel® Xeon® Scalable
processors (Cascade Lake/Skylake)[‡]
2. 24 DIMMs; up to 6TB 3DS ECC
DDR4-2933MHz[†] RDIMM/LRDIMM,
Supports Intel® Optane™ DCPMM^{††}
3. 2 PCI-E 3.0 x16, 1 PCI-E 3.0 x8, 1 [SIOM](#)
card support (flexible networking)
Note: must bundle with Network card
4. 24 Hot-swap 3.5" SAS3/SATA3 drive bays;
2 hot-swap 2.5" SATA3 drive bays (rear)
Expander based backplane
5. Broadcom 3108 SAS3, HW RAID
6. Server remote management: IPMI 2.0
/ KVM over LAN / Media over LAN
7. 5x 8cm high-performance PWM fans
8. 1600W Redundant Power Supplies
Titanium Level (96%)

Complete System Only: To maintain quality and integrity, this product is sold only as a completely-assembled system (with minimum 2 CPUs, 2 DIMMs, 6 HDDs and 1 NIC or SIOM card).

[▶ Drivers & Utilities](#) | [▶ BIOS](#) | [▶ IPMI](#) | [▶ Tested Memory](#) | [▶ NVMe](#)
[Options](#) | [▶ Manuals](#) | [▶ OS Certification Matrix](#) | [▶ Quick-](#)
[References Guide](#) | [▶ Drive Options](#)

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

Specifications

Product SKUs

SSG-6029P-E1CR24H	■ SuperStorage 6029P-E1CR24H (Black)
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Motherboard

Super X11DSC+

Processor/Cache

CPU	■ Dual Socket P (LGA 3647) ■ 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors[‡], 3 UPI up to 10.4GT/s ■ Support CPU TDP 70-165W
Cores	■ Up to 28 Cores
Note	[‡] BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

System Memory

Memory Capacity	■ 24 DIMM slots ■ Up to 6TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM ■ Supports Intel® Optane™ DCPMM^{††}
Memory Type	■ 2933 [†] /2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM
Note	[†] 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro ^{††} Cascade Lake only. Contact your Supermicro sales rep for more info.

On-Board Devices

Chipset	■ Intel® C621 chipset
SAS	■ SAS3 (12Gbps) via Broadcom 3108; HW RAID ■ RAID 0, 1, 5, 6, 10, 50, 60
SATA	■ SATA3 (6Gbps); RAID 0, 1, 5, 10
IPMI	■ Support for Intelligent Platform Management Interface v.2.0 ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Video	■ ASPEED AST2500 BMC

Input / Output

Serial ATA	■ 8 SATA3 (6Gbps) ports
LAN	■ 1 RJ45 Dedicated IPMI LAN port
USB	■ 2 USB 3.0 ports (rear)

Chassis

Form Factor	■ 2U Rackmount
Model	■ CSE-826STS-R1K62P1

Dimensions

Width	■ 17.2" (437mm)
Height	■ 3.5" (89mm)
Depth	■ 34" (863mm)
Available Colors	■ Black

Front Panel

Buttons	■ Power On/Off button ■ System Reset button
LEDs	■ Power status LED ■ Hard drive activity LED ■ Network activity LEDs ■ System Information LED ■ Power fail LED

Expansion Slots

PCI-Express	■ 2 PCI-E 3.0 x16 slots ■ 1 PCI-E 3.0 x8 slot ■ 1 <u>SIOM</u> card support (must bundle with network card)
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Drive Bays

Hot-swap	■ 24 Hot-swap 3.5" SAS3/SATA3 drive bays ■ 2 Hot-swap 2.5" SATA3 drive bays (rear)
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Backplane

Expander based backplane

System Cooling

Fans	■ 5x 8cm high-performance PWM fans
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Power Supply

1600W Redundant Power Supplies with PMBus

Total Output Power	■ 1600W/1000W
Dimension (W x H x L)	■ 73.5 x 40 x 203 mm
Input	■ 100-127Vac / 13 - 9A / 50-60Hz ■ 200-240Vac / 10 - 8A / 50-60Hz
+12V	■ Max: 83.3A / Min: 0A (100-127Vac)

	■ 1 Type A
Video	■ 1 VGA D-Sub connector port
Serial Port / Header	■ 1 Fast UART 16550 port / 1 Header

System BIOS

BIOS Type	■ AMI UEFI
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Management

Software	■ Intel® Node Manager ■ <u>IPMI 2.0</u> ■ NMI ■ SSM, SPM, SUM ■ <u>SuperDoctor® 5</u> ■ Watchdog
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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

	■ Max: 133A / Min: 0A (200-240Vac)
12Vsb	■ Max: 2.1A / Min: 0A
Output Type	■ 25 Pairs Gold Finger Connector
Certification	  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

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DSC+	1	Super X11DSC+ Motherboard
	CSE-826STS-R1K62P1	1	2U Chassis
Add-on Card / Module	AOM-S3108M-H8L-P	1	sas3 roc mez for X10dsc
Backplane	BPN-SAS3-826SEL1-N4	2	12-port 2U Simply-Double SAS3 12Gbps single-expander backplane, support up to 8x 3.5-inch SAS3/SATA3 HDD and 4x NVMe/SAS3/SATA3 storage devices
Cable 1	CBL-PWEX-0702	1	PWEX,2X4F/P4.2 TO 1X4F/P5.08/RA,32CM,18AWG,YEL,BLK*2,RED
Cable 2	CBL-SAST-0835	2	SLIMLINE SAS to MiniSAS HD, INT, 100CM, 32AWG
Cable 3	CBL-SAST-0836	2	MINI SAS HD,INT,SAS3 SSD,48CM,32AWG
Parts	MCP-220-82616-0N	1	12G 2.5x2 Drive Kit w/ Status LED(216B/826B/417B/846X/847B)
Heatsink / Retention	SNK-P0067PS	2	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-1K62A-1R	2	AC-DC 1600W, Titanium Level, Redundancy, 1U, DC Output: +12V and +12Vs, 203 x 73.5 x 40 mm, AC Input: 90 - 264 VAC/47-63Hz, PMBus 1.2 with DSP controller,HF,RoHS/REACH
FAN 1	FAN-0168L4	5	80x80x38 mm, 13.5K RPM, Middle Cooling Fan for SC226S Chassis (48-bay)

Optional Parts List

	Part Number	Qty	Description
Converter Tray	MCP-220-00140-0B	-	Hot-swap 3.5" to 2.5" converter tray
4 NVMe Drives Support	CBL-SAST-0929	4	OCuLink 0.91 to MiniSAS HD,INT,PCIe NVMe SSD, 57CM,34AWG
	MCP-220-00140-0B	4	Hot-swap 3.5" to 2.5" converter tray
2x 2.5" rear SATA drive bay to support (2+2) drive bays	CBL-PWEX-0650	1	8-pin female to 2 Right Angle big 4-pin female power, 47/62cm
	MCP-240-22604-0N	1	2U Rear plate support (2 + 2) 2.5HDD for SC226S/826S
	MCP-240-22605-0N	1	2U Rear Window support (2+2) 2.5HDD for SC226S/826S, X11DSC
	MCP-220-82616-0N	1	Rear 2.5 x 2 Hot swap HDD kit
SIOM Network Card(s)	AOC-MGP-I2	-	SIOM 2-port GbE, Intel i350-AM2
	AOC-MGP-I4	-	SIOM 4-port GbE, Intel i350-AM4
	AOC-MTG-I2T	-	SIOM 2-port 10GBase-T, Intel X550
	AOC-MTG-I4T	-	SIOM 4-port 10GBase-T, Intel X550
	AOC-MTGN-I2S	-	SIOM 2-port 10G SFP+, Intel 82599ES
	AOC-MTG-I4S	-	SIOM 4-port 10G SFP+, Intel XL710
Network Card(s)	AOC-S25G-m2S	-	Standard LP, 2x 25GbE SFP28, Mellanox ConnectX-4 LX EN
	AOC-STGN-i1S/i2S	-	Standard LP, 1/2x 10GbE SFP+, PCI-E x8, Intel 82599EN
	AOC-STG-i4S	-	Standard LP, 4x 10GbE SFP+, PCI-E x8, Intel XL710
	AOC-STG-i2T	-	Standard LP, 2x 10GbE RJ45, PCI-E x8, Intel X540
	AOC-S100G-m2C	-	Standard 100G Mellanox ConnectX-4 EN based
	More	-	AOC Compatibility Matrix
3108 Cache Protection	BTR-CV3108-FT1	-	Broadcom 3108 CacheVault kit (ROHS, Reach)
TPM security module (optional, not included)	AOM-TPM-9670V	1	TPM module (Vertical) TPM 2.0
	AOM-TPM-9671V	1	TPM module (Vertical) TPM 1.2.
Intel VROC RAID Key	AOC-VROCINTMOD	1	Intel VROC, RAID 0, 1, 5, 10 (Intel SSD Only)
	AOC-VROCSTNMOD	1	Intel VROC Standard, RAID 0, 1, 10

	AOC-VROCPREMOD	1	Intel VROC Premium, RAID 0, 1, 5, 10
Short Rail	MCP-290-11808-0N	-	Supermicro 1U Rail Kit (Note: If short rail is used, system will not support cable management arm)
Global Services & Support	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC • eStore	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)