

Specifications

Product SKUs

SSG-640SP-DE2CR60	▪ SuperServer SSG-640SP-DE2CR60 (Black)
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Motherboard

Super X12DSC-6

Processor (per Node)

CPU	▪ Dual Socket P+ (LG-4189) ▪ 3rd Gen Intel® Xeon® Scalable processors ▪ Support CPU TDP 120-205W
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System Memory (per Node)

Memory	▪ Memory Capacity: 16 DIMM slots ▪ Up to 4TB: 16x 256 GB DRAM ▪ Memory Type: 3200MHz ECC DDR4 RDIMM;LRDIMM
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Memory Voltage	▪ 1.2 V
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Error Detection	▪ ECC
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On-Board Devices (per Node)

Chipset	▪ Intel® C621A
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Network Connectivity	▪ 2x 10GbE BaseT with X550
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IPMI	▪ Support for Intelligent Platform Management Interface v.2.0 ▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
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Input / Output (per Node)

LAN	▪ 1 RJ45 Dedicated IPMI LAN port ▪ 2 RJ-45 10Gbase-T ports
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USB	▪ 2 USB 3.0 port(s) (2 Rear_USB)
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Video	▪ 1 VGA port(s)
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Serial Port	▪ 1 COM Port(s) (1 rear)
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DOM	▪ 2 SuperDOM (Disk on Module) port
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System BIOS

BIOS Type	▪ AMI 128MB SPI Flash EEPROM
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Management

Chassis

Form Factor	▪ 4U Rackmount
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Model	▪ CSV-947STS-R2K63P
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Dimensions and Weight

Height	▪ 7"
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Width	▪ 17.6"
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Depth	▪ 34.1"
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Package	▪ 29.92" (H) x 31.89" (W) x 44.88" (D)
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Weight	▪ Net Weight: 118 lbs (53.5 kg) ▪ Gross Weight: 170.5 lbs (77.3 kg)
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Available Color	▪ Black
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Expansion Slots (per Node)

PCI-Express (PCI-E)	▪ Slot 1: PCI-E 4.0 x16 LP ▪ Slot 2: PCI-E 4.0 x16 LP ▪ Slot 3: PCI-E 4.0 x16 LP
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Drive Bays / Storage (per Node)

Hot-swap	▪ 60x 3.5" hot-swap SATA3/SAS3 drive bays ▪ 4x 2.5" 7mm drive bays
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M.2	▪ 2 M.2 NVMe
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System Cooling

Fans	▪ 6 Heavy Duty 8cm Fan(s)
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Power Supply

2x 2600W Titanium Redundant Power Supply

Dimension (W x H x L)	▪ 73.5 x 40 x 265 mm
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AC Input	▪ 2600W: 200-240Vac / 15A Max / 50-60Hz
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DC Input	▪ 2600W: 240-240Vdc For CQC only / 15A Max
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+12V	▪ Max: 216A / Min: 0A (11.4Vdc-12.6Vdc) (12V output)
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Output Type	▪ Backplanes (gold finger)
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Certification	▪   Titanium Level
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[Test Report]

Operating Environment

Software	<ul style="list-style-type: none"> ▪ <u>IPMI 2.0</u> ▪ <u>SUM</u> ▪ NMI ▪ Watch Dog ▪ SuperDoctor® 5
Power Configurations	<ul style="list-style-type: none"> ▪ ACPI Power Management ▪ Power-on mode for AC power recovery

PC Health Monitoring

CPU	<ul style="list-style-type: none"> ▪ 4+1 Phase-switching voltage regulator ▪ Monitors for CPU Cores, Chipset Voltages, Memory
FAN	<ul style="list-style-type: none"> ▪ Fans with tachometer monitoring ▪ Pulse Width Modulated (PWM) fan connectors ▪ Status monitor for speed control
Temperature	<ul style="list-style-type: none"> ▪ Monitoring for CPU and chassis environment ▪ Thermal Control for fan connectors

RoHS	<ul style="list-style-type: none"> ▪ RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> ▪ 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-X12DSC-6	2	Super X12DSC-6 Motherboard
	CSV-947STS-R2K63P	1	4U Chassis
Add-on Card / Module	AOM-S3616-S-P	2	Storage 3616 controller for serviceable60/90baysystems.
Backplane	BPN-ADP-30SAS3-1	2	Adapter board between Expander and HDD BPN for CSE-947H,RoHS
Backplane	BPN-SAS3-947EB	4	HDD Backplane (15-slot) for CSE-947H 60/90-bay top load chassis/server.,RoHS
Backplane	BPN-SAS3-947EL	4	SAS3 expander module for top-load 60/90-bay single/twin/SBB CSE-947 project,RoHS
Backplane	BPN-SAS3-947SB	1	Midplane for topload CSE-947 60/90-bay SBB/Twin/single-node system,RoHS
Cable 1	CBL-0066	2	39" 9 PIN COM PORT EXTENSION CABLE
Cable 2	CBL-0082L	2	Y SPLIT SATA POWER ADAPTER, PB FREE
Cable 3	CBL-0473L	4	21CM 30AWG SATA CBL, S-S
Cable 4	CBL-OTHR-1062-25	2	CBL,VGA,DP15/F, to 2X7F/P2.0,25CM,RoHS
Cable 5	CBL-OTHR-1105	1	60 SBB,SlimlineULP x12 to SlimlineLP x8,FFC,100 OHM to
Cable 6	CBL-PWCD-0376-IS	2	PWCD,US,IEC60320 C19 TO C20,940mm (3ft),14AWG,15A,250V,Black
Cable 7	CBL-PWEX-1100-25	2	MicroFit 2x2F/PH3.0 to 1x4F/PH5.08,25cm,10A/pin,16AWG,R
Cable 8	CBL-PWEX-1265	2	2x4,PH3.0 to 2x4,PH4.2,20CM,16AWG,9.5A/pin,RoHS
Software	SFT-OOB-LIC	2	License key for enabling OOB BIOS management
Heatsink / Retention	SNK-P0078PR	4	2U Proprietary Passive CPU Heat Sink for X12 Generation Hype-E Series Servers
*Power Supply	PWS-2K63A-1R	2	1U 2600Wredundant single outpupowersupply with wide range in
*Cable 9	CBL-PWEX-1101	1	[NR]PH3.0,F to PH3.0,M,2x4P TO PH3.0,M,2x8P,6A/p,30.6/43.6CM,18AWG
*Cable 10	CBL-PWEX-1102	1	[NR]PH3.0,F toPH3.0,M,2x4P TO PH3.0,M,2x8P,6A/p,35.3/48.5CM,18AWG
*Front Panel	FPB-FP827BR	1	2U BigTwin front control board - right side
*Drive Tray(s)	MCP-220-94601-0N	60	SC946ED 3.5" / 2.5" tool-less HDD tray

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			
	Part Number	Qty	Description
Network Cards	AOC-S25G-M2S	-	Standard LP, 2x 25GbE SFP28, Mellanox ConnectX-4 LX EN
	More	-	AOC Compatibility Matrix (Select Storage & X12)
	AOC-SGP-I2	-	Standard LP 2-port GbE, Intel 82575
	AOC-S40G-I2Q	-	Standard LP 2-port 40GbE controller, Intel Fortville XL710
TPM Module	<u>AOM-TPM-9671V-S</u>	-	SPI capable TPM 1.2 with Infineon 9670 controller with vertical form factor

<u>AOM-TPM-9670V-S</u>	-	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor
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