



Available Colors: Black

★★★★★  
Channel Insider Review

- [▶ Drivers & Utilities](#)  
 [▶ BIOS](#)  
 [▶ Tested Memory List](#)  
 [▶ Manuals](#)

## Key Features

### • Whisper Quiet Workstation (28dB) with High-end Graphics Support

1. Dual Intel® 5500 series Xeon® Quad/ Dual-Core, with QPI up to 6.4 GT/s
2. Up to 96GB DDR3 1333/ 1066/ 800MHz ECC Registered DIMM
3. 2 (x16) PCI-E 2.0, 1 (x4) PCI-E (in x 8 slot), 3x PCI 33MHz slots
4. Intel® Dual 82573V/L Gigabit Ethernet Controller
5. LSI 1068E 8-Port SAS Controller; RAID 0, 1, 10; RAID 5 optional
6. 8 x 3.5" hot-swap SAS/ SATA Drive Bays
7. 865W Low-Noise High Efficiency Power Supply
8. Tower or Rackmount
9. PWM Fan Speed Control

## Specifications

Product SKUs	
SYS-7046A-3	▪ SuperServer 7046A-3 (Black)
Motherboard	
<b>Super X8DA3</b>	
Processor/Cache	
CPU	<ul style="list-style-type: none"> <li>▪ Dual 1366-pin LGA Sockets</li> <li>▪ Supports up to two Intel® 64-bit Xeon® processor(s) of the same type below:                             <ul style="list-style-type: none"> <li>▪ Quad-Core Intel® Xeon® Processor 5500 sequence (Nehalem-EP processor)</li> </ul> </li> </ul>
QPI	▪ up to 6.4 GT/s
System Memory	
Memory Capacity	<ul style="list-style-type: none"> <li>▪ 12x 240-pin DIMM sockets</li> <li>▪ Supports up to 96 GB 1333 / 1066 / 800MHz DDR3 ECC Registered memory</li> <li>▪ Supports up to 24 GB 1333 / 1066 / 800MHz DDR3 ECC Unbuffered memory</li> <li>▪ Memory Mirroring supported</li> </ul>
Memory Type	▪ 1333 / 1066 / 800MHz ECC Registered / ECC Unbuffered DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	▪ 1GB, 2GB, 4GB, 8GB
Memory Voltage	▪ 1.5 V
Error Detection	<ul style="list-style-type: none"> <li>▪ Corrects single-bit errors</li> <li>▪ Detects double-bit errors (using ECC memory)</li> <li>▪ Supports Intel® x4 and x8 Single Device Data Correction (SDDC)</li> </ul>
On-Board Devices	
Chipset	<ul style="list-style-type: none"> <li>▪ Intel® 5520 (Tylersburg) chipset</li> <li>▪ ICH10R + IOH-36D</li> </ul>
SAS	<ul style="list-style-type: none"> <li>▪ LSI SAS1068E</li> <li>▪ RAID 0, 1, 10 support (Optional: AOC-IButton68)</li> <li>▪ RAID 5 support</li> </ul>
SATA	<ul style="list-style-type: none"> <li>▪ Intel ICH10R SATA 3.0Gbps Controller</li> <li>▪ RAID 0, 1, 5, 10 support</li> </ul>
IPMI	<ul style="list-style-type: none"> <li>▪ Support for Intelligent Platform Management Interface v.2.0 / 1.5</li> <li>▪ 200-pin IPMI slot (SIMLC)</li> </ul>

Chassis	
Form Factor	<ul style="list-style-type: none"> <li>▪ 4U Rackmountable / Tower</li> <li>▪ Optional Rackmount Kit (CSE-PT26)</li> </ul>
Model	▪ <a href="#">SC743TQ-865B-SQ</a>
Dimensions	
Height	▪ 7.0" (178mm)
Width	▪ 17.2" (437mm)
Depth	▪ 25.5" (648mm)
Gross Weight	▪ 63 lbs (28.6kg)
Available Colors	▪ Black
Front Panel	
Buttons	<ul style="list-style-type: none"> <li>▪ Power On/Off button</li> <li>▪ System Reset button</li> </ul>
LEDs	<ul style="list-style-type: none"> <li>▪ Power LED</li> <li>▪ Hard drive activity LED</li> <li>▪ 2x Network activity LEDs</li> <li>▪ System Overheat / Fan Fail LED</li> </ul>
Ports	▪ 2x USB Ports
Drive Bays	
Hot-swap	▪ 8x SAS Hot-swap Drives
Peripheral Bay(s) [90° Rotatable]	<ul style="list-style-type: none"> <li>▪ 2x 5.25" Peripheral Drive Bay</li> <li>▪ 1x 5.25" Bay for Floppy Drive</li> </ul>
SAS / SATA Backplane	
SC743 SAS / SATA Backplane w/ Enclosure Management	
System Cooling	
Fans	<ul style="list-style-type: none"> <li>▪ 2x 8cm Hot-swappable PWM Cooling Fans</li> <li>▪ 1x 9cm Rear Exhaust PWM Fan</li> <li>▪ 2x Active heatsink w/ heatpipe</li> </ul>
Power Supply	
865W AC power supply (cooling-redundant) w/ PFC	
AC Voltage	▪ 100 - 240V, 50-60Hz, 12-6 Amp
+5V standby	▪ 6.5 Amp
+12V	▪ 70 Amp
+5V	▪ 30 Amp
+3.3V	▪ 30 Amp
-12V	▪ 1 Amp
Certification	

	<ul style="list-style-type: none"> <li>(Optional: AOC-SIMLC)</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Intel® 82573V &amp; 82573L Gigabit Ethernet Controller</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> </ul>
Audio	<ul style="list-style-type: none"> <li>Realtek ALC883 7.1 HD audio</li> </ul>
Super I/O	<ul style="list-style-type: none"> <li>Winbond 83827HF chip</li> </ul>
<b>Expansion Slots</b>	
PCI-Express	<ul style="list-style-type: none"> <li>2 (x16) PCI-E 2.0 slots</li> <li>1 (x4) PCI-E (in x8 slot)</li> </ul>
PCI	<ul style="list-style-type: none"> <li>3x 33MHz PCI slots</li> </ul>
<b>Input / Output</b>	
SAS	<ul style="list-style-type: none"> <li>8 SAS / SATA ports</li> </ul>
Serial ATA	<ul style="list-style-type: none"> <li>Six Serial ATA ports</li> <li>Six SATA hard drives supported</li> </ul>
Floppy	<ul style="list-style-type: none"> <li>1 Floppy controller; 1.44 MB</li> </ul>
LAN	<ul style="list-style-type: none"> <li>2x RJ45 LAN ports</li> </ul>
USB	<ul style="list-style-type: none"> <li>4x USB rear ports</li> <li>2x USB on-board</li> <li>4x USB internal headers</li> <li>Total 10 USB 2.0 Compliant</li> </ul>
Audio	<ul style="list-style-type: none"> <li>Realtek ALC883 7.1 HD audio</li> <li>1x S/PDIF digital output</li> </ul>
Keyboard / Mouse	<ul style="list-style-type: none"> <li>PS/2 keyboard and mouse ports</li> </ul>
Serial Port	<ul style="list-style-type: none"> <li>2 Fast UART 16550 serial ports</li> </ul>
<b>System BIOS</b>	
BIOS Type	<ul style="list-style-type: none"> <li>32Mb SPI Flash EEPROM with AMI® BIOS</li> </ul>
BIOS Features	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>PCI 2.2</li> <li>ACPI up to 3.0</li> <li>USB Keyboard support</li> </ul>



80 PLUS Certified

#### PC Health Monitoring

CPU	<ul style="list-style-type: none"> <li>Monitors for CPU Cores, +1.8V, +3.3V, +5V, ±12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages.</li> <li>6-Phase-switching voltage regulator</li> </ul>
FAN	<ul style="list-style-type: none"> <li>Total of eight fan headers supporting up to 8 fans</li> <li>Eight 4-pin fan headers</li> <li>8x fans with tachometer status monitoring</li> <li>Support 3-pin fans (w/o speed control)</li> <li>Low noise fan speed control</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>Thermal Control for 8x fan connectors</li> <li>PECI</li> </ul>
Other Features	<ul style="list-style-type: none"> <li>Chassis intrusion detection</li> <li>Chassis intrusion header</li> </ul>

#### Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> <li>RoHS Compliant 6/6, Pb Free</li> </ul>
Environmental Spec.	<ul style="list-style-type: none"> <li>Operating Temperature: 10° to 35°C (50° to 95°F)</li> <li>Non-operating Temperature: -40° to 70°C (-40° to 158°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5 to 95% (non-condensing)</li> </ul>

### Parts List

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X8DA3-O-P	1	Super X8DA3 Motherboard
	CSE-743TQ-865B-SQ	1	4U SC743TQ-865B-SQ Chassis
Backplane	CSE-SAS-743TQ	1	SC743 SAS / SATA Backplane [ <a href="#">Manual</a> ]
Bezel Filter	-	1	Front Bezel Filter
Cable(s)	CBL-0112L	1	Round Floppy Cable
	CBL-0118L-02	2	23CM IPASS TO 4 SATA,PB FREE
	CBL-0087	1	Front Panel Ribbon Cable
	CBL-0216L	4	4 TO 4 PIN FAN POWER CABLE, 210MM
	CBL-0160L	1	US POWER CORD 16AWG, PB FREE
CD	CDR-X8	1	Driver CD
Drive Tray(s)	CSE-PT17B	8	Hard Drive Tray
Fan(s)	FAN-0103L4	1	92x25 4Pin PWM Fan
	FAN-0104L4	2	80x25,4 Pin PWM Fan
Heatsink / Retention	SNK-P0040AP4	2	Please refer to our <a href="#">Thermal Components Matrix</a>
I/O Shield	MCP-260-74301-ON	1	Color Mylar I/O Shield
Manual(s)	MNL-1010	1	SW7046A-3/T User's Manual
Power Supply	PWS-865-PQ	1	865W Low-Noise Power Supply

Optional Parts List			
	Part Number	Qty	Description
IPMI	AOC-SIMLC	-	IPMI 2.0 w/ Virtual Media Over LAN
	AOC-SIMLC+	-	IPMI 2.0 w/ Virtual Media Over LAN & KVM OverLAN
Mounting Rails	CSE-PT26-B	-	Chassis Mounting Rails (Black)

\*\*This memory modules are not tested yet