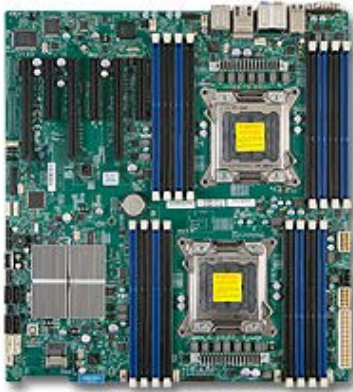


# X9DAi

Products ▶ Motherboards ▶ Xeon® Boards ▶ [ X9DAi ]



### Key Features

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600
2. Intel® C602 chipset; QPI up to 8.0GT/s
3. Up to 512GB DDR3 1600MHz ECC Registered DIMM; 16x DIMM sockets
4. Expansion slots: 3x PCI-E 3.0 x16, 2x PCI-E 3.0 x8 & 1x PCI-E 3.0 x4 (in x8)
5. Intel® i350 Dual port GbE LAN
6. 8x SATA2 and 2x SATA3 ports
7. 4x USB 3.0 and 7x USB 2.0 ports

### Links & Resources

- ▶ [Tested Memory List](#)
- ▶ [Tested HDD List](#)
- ▶ [Motherboard Manual](#)
- ▶ [Update Your BIOS](#)
- ▶ [Download the Latest Drivers and Utilities](#)



## Specifications

### Product SKUs

<b>MBD-X9DAi -O</b>	■ X9DAi (Standard Retail Pack)
<b>MBD-X9DAi -B</b>	■ X9DAi (Bulk Pack)

### Physical Stats

<b>Form Factor</b>	■ E-ATX
<b>Dimensions</b>	■ 12" x 13" (30.5cm x 33.2cm)

### Processor/Cache

<b>CPU</b>	■ Intel® Xeon® processor E5-2600 ■ Dual Socket R (LGA 2011)
<b>Cache</b>	■ Up to 20MB
<b>System Bus</b>	■ QPI up to 8 GT/s

### System Memory

<b>Memory Capacity</b>	■ 16x 240-pin DDR3 DIMM sockets ■ Supports up to 512 GB DDR3 ECC Registered memory (RDIMM) ■ Supports up to 128 GB DDR3 ECC Un-Buffered memory (UDIMM)
<b>Memory Type</b>	■ 1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
<b>DIMM Sizes</b>	■ 32GB, 16GB, 8GB, 4GB, 2GB, 1GB
<b>Memory Voltage</b>	■ 1.5 V, 1.35 V
<b>Error Detection</b>	■ Corrects single-bit errors ■ Detects double-bit errors (using ECC memory)

### On-Board Devices

<b>Chipset</b>	■ Intel® C602 chipset
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### Chassis ( Optimized for X9DAi )

<b>3U Chassis</b>	■ CSE-732D4F-903B
<b>Tower / 4U Rackmount</b>	■ <a href="#">CSE-743TQ-1200B-SQ</a>
<b>Important Chassis Notes</b>	■ To support the new generation Intel® Xeon® processor-based motherboards, <b>Revision M</b> chassis is recommended. Please talk to your sales representative for details.

### Expansion Slots

<b>PCI-Express</b>	■ 3x PCI-E 3.0 x16 slots ■ 2x PCI-E 3.0 x8 slots ■ 1x PCI-E 3.0 x4 (in x8) slot
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### System BIOS

<b>BIOS Type</b>	■ 128Mb SPI Flash EEPROM with AMI BIOS
<b>BIOS Features</b>	■ Plug and Play (PnP) ■ APM 1.2 ■ DMI 2.3 ■ PCI 2.3 ■ ACPI 1.0 / 2.0 / 3.0 / 4.0 ■ USB Keyboard support ■ SMBIOS 2.7.1 ■ UEFI

### Management

<b>Software</b>	■ <a href="#">SuperDoctor® III</a> ■ Watch Dog ■ NMI
<b>Power Configurations</b>	■ ACPI / APM Power Management ■ Main Switch Override Mechanism ■ CPU Fan auto-off in sleep mode ■ Power-on mode for AC power recovery ■ Suspend to RAM (STR)

<b>SATA</b>	<ul style="list-style-type: none"> <li>SATA 2.0 3Gbps with RAID 0, 1, 5, 10</li> <li>SATA 3.0 6Gbps with RAID 0, 1, 5, 10</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>Intel® i350 Dual Port Gigabit Ethernet</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>RealTek ALC889 7.1 High Definition Audio with S/PDIF header</li> </ul>
<b>Super I/O</b>	<ul style="list-style-type: none"> <li>Nuvoton W83627</li> </ul>
<b>Input / Output</b>	
<b>SATA</b>	<ul style="list-style-type: none"> <li>2x SATA 3.0 ports (6Gbps)</li> <li>8x SATA 2.0 ports (3Gbps)</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>2x RJ45 Gigabit Ethernet LAN ports</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>4x USB 3.0 ports (2 rear + 2 via header)</li> <li>7x USB 2.0 ports (4 rear + 2 via header + 1 Type A)</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>7.1 HD Audio with optical S/PDIF</li> </ul>
<b>Keyboard/Mouse</b>	<ul style="list-style-type: none"> <li>PS/2 Keyboard Combo port</li> </ul>
<b>Serial Port / Header</b>	<ul style="list-style-type: none"> <li>1x Fast UART 16550 ports</li> </ul>
<b>IEEE 1394a</b>	<ul style="list-style-type: none"> <li>2x Headers</li> </ul>
<b>DOM</b>	<ul style="list-style-type: none"> <li>1 DOM (Disk on Module) power connector</li> </ul>

## PC Health Monitoring

<b>Voltage</b>	<ul style="list-style-type: none"> <li>Monitors for CPU Cores, +1.1V, +1.5V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory Voltages.</li> <li>6+1 Phase-switching voltage regulator</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>8x 4-pin fan headers (up to 8 fans)</li> <li>8x fans with tachometer monitoring</li> <li>Status monitor for speed control</li> <li>Status monitor for on/off control</li> <li>Low noise fan speed control</li> <li>Pulse Width Modulated (PWM) fan connectors</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>CPU thermal trip support</li> <li>Thermal Control for 8x Fan Connectors</li> <li>I<sup>2</sup>C temperature sensing logic</li> <li>Thermal Monitor 2 (TM2) support</li> <li>PECI</li> </ul>
<b>LED</b>	<ul style="list-style-type: none"> <li>CPU / System Overheat LED</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>Chassis intrusion detection</li> <li>Chassis intrusion header</li> <li>SDDC Support</li> <li>RoHS</li> </ul>

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

## Parts List

### Parts List (retail)

	Part Number	Qty	Description
<b>X9DAi</b>	MBD-X9DAi	1	X9DAi Motherboard
<b>Manual</b>	MNL-1275	1	Motherboard Manual
<b>I/O Cables</b>	CBL-0044L	2	SATA CABLE 61CM FLAT S-S PBF
<b>I/O Cables</b>	CBL-0097L-03	1	30AWG 50CM Ipass to 4 SATA, W/50cm SB, S
<b>I/O Cables</b>	CBL-0173L	1	INTERNAL TO EXTERNAL FOR 1394 CONNECTOR,PBF
<b>I/O Shield</b>	MCP-260-00045-0N	1	Standard I/O Shield with Gasket
<b>Driver Disk</b>	CDR-X9Rev 1.00 or newer	1	Driver CD for X9 series Motherboards

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