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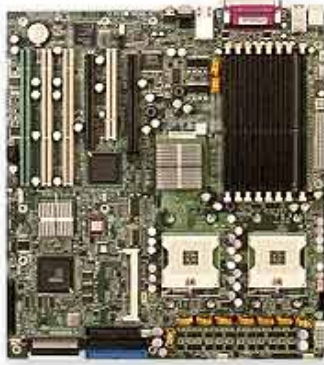
English

X6DA8-G

Products ▶ Motherboards ▶ Xeon Boards ▶ [**X6DA8-G**]

Key Features

1. Dual Intel® 64-bit Xeon® Support, up to 3.80 GHz, 800 MHz FSB
2. Intel® E7525 (Tumwater) Chipset
3. Up to 16GB DDR 333 SDRAM (or) Up to 32GB DDR 266 SDRAM
4. Intel® 82545GM Single-port Gigabit Ethernet Controller
5. Adaptec AIC-7902 Dual Channel Ultra320 SCSI
6. 2x SATA Ports via ICH5R SATA Controller
7. 1 (x16) & 1 (x4) PCI-Express, 1x 64-bit 133MHz PCI-X, 2x 64-bit 100MHz PCI-X, 1x 32-bit 33MHz PCI
8. Zero Channel RAID Support
9. AC'97 Audio, 6-Channel Sound

Links & Resources

▶ Recommended Chassis

▶ Tested Memory List

▶ Motherboard Manual

▶ Update Your BIOS

▶ Download the Latest Drivers and Utilities

Specifications

Product SKUs - **Discontinued SKU (EOL). Please contact sales-rep for alternative options.**

MBD-X6DA8-G-O	▪ X6DA8-G (Standard Retail Pack)
MBD-X6DA8-G-B	▪ X6DA8-G (Bulk Pack)

Physical Stats

Form Factor	▪ Extended ATX
Dimensions	▪ 12" x 13.05" (30.5cm x 33.2cm)

Processor/Cache

CPU	▪ Dual 604-pin FC-mPGA4 Sockets
	▪ Supports up to two **Intel® 64-bit Xeon®** processor(s) of the same type below:
	  ▪ **Xeon (Nocona) CPU** with 1MB L2 Integrated Advanced Transfer Cache, up to 3.60 GHz
	  ▪ **Xeon (Irwindale) CPU** with 2MB L2 Integrated Advanced Transfer Cache, up to 3.80 GHz
	  ▪ **Xeon LV (Low Voltage) CPU**, up to 2.8 GHz

System Bus	▪ 800 MHz system bus

System Memory

Memory Capacity	▪ Eight 184-pin DIMM sockets ▪ Supports up to 16 GB DDR 333 MHz memory or ▪ Supports up to 32 GB DDR 266 MHz memory ▪ Dual channel memory bus ▪ Memory must be populated in pairs ▪ Single-rank modules are recommended for 6+ DIMM support

Chassis (Optimized for X6DA8-G)

2U Chassis	▪ SC823S-550LP ▪ SC823S-R500LP
3U Chassis	▪ SC833S-R760 ▪ SC833S-550 ▪ SC933S2-R760
Tower / 4U Rackmount	▪ SC742S-500 ▪ SC742S-600 ▪ SC743S1-R760 ▪ SC743S1-650 ▪ SC743S1-645 ▪ SC942i-600 ▪ SC942i-R760
Important Chassis Notes	▪ To ensure system stability, a 500W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required] ▪ Chassis must have CPU mounting holes required for 800MHz FSB CPUs with this serverboard.

Expansion Slots

PCI-Express	▪ 1 (x16) PCI-e slot ▪ 1 (x4) using (x16 slot)
PCI-X	▪ 1x 64-bit 133MHz PCI-X (3.3V) slot ▪ 2x 64-bit 100MHz PCI-X (3.3V) slots
PCI	▪ 1x 32-bit 33MHz PCI (5V) slot

System BIOS

BIOS Type	▪ 8Mb Flash EEPROM with Phoenix® BIOS
BIOS Features	▪ Plug and Play (PnP) ▪ SMBIOS 2.3 ▪ DMI 2.1 ▪ ACPI 1.0 ▪ Fan Speed Control

Memory Type	• DDR333/266MHz buffered (registered) ECC SDRAM 72-bit, 184-pin gold-plated DIMMs
DIMM Sizes	• 256 MB, 512 MB, 1GB, 2GB, 4GB**
Memory Voltage	• 2.5 V only
Error Detection	• Corrects single-bit errors • Detects double-bit errors (using ECC memory) • Supports Intel® x4 Single Device Data Correction (SDDC)

On-Board Devices

Chipset	• Intel® E7525 chipset • MCH + ICH5R + PXH +82545GM
SATA	• ICH5R SATA Controller • RAID 0, 1, JBOD support
SCSI	• Adaptec AIC-7902 Controller • Dual-Channel Ultra320 SCSI (Host RAID only supports 4 drives) • Host RAID 0, 1, 10, JBOD support
RAID	• Support for Zero-Channel RAID • Optional: (Card not included)
IPMI	• Support for Intelligent Platform Management Interface v.2.0 (**Optional**)
Network Controllers	• Intel® 82545GM Single Port Gigabit Controller • Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Audio	• AC'97 audio CODEC with high quality 6-channel sound
Super I/O	• Winbond 83627HF chip

Input / Output

Serial ATA	• Two Serial ATA ports • Two SATA hard drives supported
IDE	• Dual EIDE channels support up to four UDMA IDE devices • Supports UDMA Mode 5, PIO Mode 4, and ATA/100
Floppy	• 1 Floppy controller; 1.44 MB, 2.88 MB, 3-mode support
LAN	• 1x RJ45 LAN port
USB	• 4x USB rear ports • 4x USB internal headers • USB 2.0 Compliant / 1.1 Compliant
Audio	• 1x Line In / Line Out / Microphone ports
Keyboard / Mouse	• PS/2 keyboard and mouse ports
Serial Ports	• 2 Fast UART 16550 serial ports
Parallel Port	• 1 ECP/EEP parallel port

Management

Software	• Optional IPMI (Intelligent Platform Management Interface) 2.0 • SuperDoctor® III • Watch Dog • NMI
Power Configurations	• ACPI/APM Power Management • Main Switch Override Mechanism • Wake-On-Ring (WOR) header • Wake-On-LAN (WOL) header • Suspend to RAM (STR) • CPU Fan auto-off in sleep mode • Power-on mode control for AC power loss recovery • Internal/External modem remote ring-on

PC Health Monitoring

Voltage	• Monitors for CPU Cores, +3.3V, +5V, ±12V & +5V Standby • CPU Core 4-Phase-switching voltage regulator with auto-sense from 0.8375V-1.6V
FAN	• Total of eight 4-pin fan headers • 8x fans with status monitoring • Low noise fan speed control • Pulse Width Modulated (PWM) fan connector
Temperature	• Monitoring for CPU and chassis environment • CPU thermal trip support • Thermal Monitor 2 support
LED	• CPU Overheat LED • System Overheat LED • Suspend-state indicator LED
Other Features	• Chassis intrusion detection • Chassis intrusion header • SDDC

OS Compatibility

• Please see our **OS Compatibility Chart**

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

Parts List

Parts List

	Part Number	Qty	Description
X6DA8-G	MBD-X6DA8-G-O	1	X6DA8-G Motherboard
Manual(s)	MNL-0724	1	Motherboard Manual for X6DA8-G
	MNL-669	1	Ultra 320 SCSI Manual
I/O Cables	CBL-022	1	ATX Floppy Cable
	CBL-034-U320	1	LVD, Ultra320 SCSI Cable
	CBL-036L-02	1	ATA 66/100 IDE LP Cable
	CBL-044L	1	2ft. Amphenol, SATA Cable
Driver Disk	CDR-INTC 1.20	1	Version 1.20 CD or later
I/O Shield	CSE-PT53	1	Motherboard I/O Shield

Note: Items in a Standard Retail Package may differ from items in a Standard Bulk Package.
** 4GB Memory has not been verified due to temporary module unavailability.