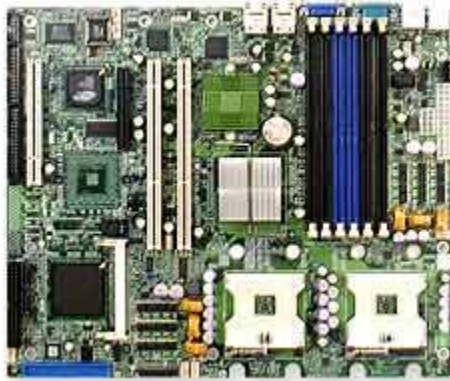


# X6DVA-EG

Products ▶ Motherboards ▶ Xeon Boards ▶ [ X6DVA-EG ]



## Key Features

1. Dual Intel® 64-bit Xeon® Support, up to 3.80 GHz, 800 MHz FSB
2. Intel® E7320 (Lindenhurst VS) Chipset
3. Up to 12GB DDR 333 SDRAM (or) Up to 24GB DDR 266 SDRAM
4. 2x Intel® 82541GI Gigabit Ethernet Controllers
5. 2x SATA Ports via 6300ESB SATA Controller
6. 1 (x4) PCI-Express, 1x 64-bit 133MHz PCI-X, 1x 64-bit 100MHz PCI-X, 1x 32-bit 33MHz PCI
7. IPMI 2.0 Socket
8. Fan speed control for low noise

## Links & Resources

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

## Specifications

### Physical Stats

- Form Factor** ■ ATX
- Dimensions** ■ 12" x 10" (30.5cm x 25.4cm)

### Processor/Cache

- 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

### CPU

- System Bus** ■ 800 MHz system bus

- Operating System Software**
  - Supports 64-bit Operating Systems
  - Supports 32-bit Operating Systems
  - [OS Compatibility Chart](#)

### System Memory

- Memory Capacity**
  - Six 184-pin DIMM sockets
  - Supports up to 12 GB DDR 333 MHz memory or
  - Supports up to 24 GB DDR 266 MHz memory
  - Dual channel memory bus
  - Memory must be populated in pairs

### Chassis ( Optimized for X6DVA-EG )

- 1U**
  - [SC811i-420](#)
  - To ensure system stability, a 420W (minimum) ATX 12V/EPS12V power supply [4-pin (+12V), 8-pin (+12V) and 24-pin] is required for systems built with non-Supermicro chassis / power supplies.
  - Chassis must have CPU mounting holes required for 800MHz FSB CPUs with this serverboard.

### Important Chassis Notes

### Expansion Slots

- PCI-Express** ■ 1 (x4) PCI-e slot
- PCI-X**
  - 1x 64-bit 133MHz PCI-X (3.3V) slot
  - 1x 64-bit 100MHz PCI-X (3.3V) slot
- PCI** ■ 1x 32-bit 33MHz PCI (5V) slot

### System BIOS

- BIOS Type** ■ 8Mb Flash EEPROM with AMI® BIOS
- BIOS Features**
  - Plug and Play (PnP)
  - SMBIOS 2.3
  - APM 1.2
  - DMI 2.1
  - ACPI 1.0

### Management

<b>Memory Type</b>	<ul style="list-style-type: none"> <li>DDR333/266MHz buffered (registered) ECC SDRAM 72-bit, 184-pin gold-plated DIMMs</li> </ul>
<b>DIMM Sizes</b>	<ul style="list-style-type: none"> <li>256 MB, 512 MB, 1GB, 2GB, 4GB**</li> </ul>
<b>Memory Voltage</b>	<ul style="list-style-type: none"> <li>2.5 V only</li> </ul>
<b>Error Detection</b>	<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 Single Device Data Correction (SDDC)</li> </ul>

#### On-Board Devices

<b>Chipset</b>	<ul style="list-style-type: none"> <li>Intel® E7320 chipset</li> <li>MCH + 6300ESB + PXH +82541GI</li> </ul>
<b>SATA</b>	<ul style="list-style-type: none"> <li>Intel 6300ESB (Hance Rapids) SATA Controller (2x Drive support)</li> <li>2x SATA Ports</li> <li>RAID 0, 1, JBOD support</li> </ul>
<b>IPMI</b>	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0 (<b>Optional</b>)</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>Intel® 82541GI Dual Port Gigabit Controller</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> </ul>
<b>Graphics</b>	<ul style="list-style-type: none"> <li>ATI Rage XL SVGA PCI video controller with 8 MB of video memory</li> </ul>
<b>Super I/O</b>	<ul style="list-style-type: none"> <li>Winbond 83627HF chip</li> </ul>

#### Input / Output

<b>Serial ATA</b>	<ul style="list-style-type: none"> <li>Two Serial ATA ports</li> <li>Two SATA hard drives supported</li> </ul>
<b>IDE</b>	<ul style="list-style-type: none"> <li>Dual EIDE channels support up to four UDMA IDE devices</li> <li>Supports UDMA Mode 5, PIO Mode 4, and ATA/100</li> </ul>
<b>Floppy</b>	<ul style="list-style-type: none"> <li>1 Floppy controller; 1.44 MB, 2.88 MB, 3-mode support</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>2x RJ45 LAN ports</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>2x USB rear ports</li> <li>2x USB internal headers</li> <li>USB 2.0 Compliant / 1.1 Compliant</li> </ul>
<b>VGA</b>	<ul style="list-style-type: none"> <li>1x VGA port</li> </ul>
<b>Keyboard / Mouse</b>	<ul style="list-style-type: none"> <li>PS/2 keyboard and mouse ports</li> </ul>
<b>Serial Ports</b>	<ul style="list-style-type: none"> <li>2 Fast UART 16550 serial ports</li> </ul>
<b>Parallel Port</b>	<ul style="list-style-type: none"> <li>1 ECP / EEP parallel port header</li> </ul>

<b>Software</b>	<ul style="list-style-type: none"> <li>Optional IPMI (Intelligent Platform Management Interface) 2.0</li> <li>Super Doctor III</li> <li>Watch Dog</li> <li>NMI</li> </ul>
<b>Power Configurations</b>	<ul style="list-style-type: none"> <li>ACPI/APM Power Management</li> <li>Main Switch Override Mechanism</li> <li>Wake-On-Ring (WOR) header</li> <li>Wake-On-LAN (WOL) header</li> <li>CPU Fan auto-off in sleep mode</li> <li>Power-on mode control for AC power loss recovery</li> <li>Internal/External modem remote ring-on</li> </ul>

#### PC Health Monitoring

<b>CPU</b>	<ul style="list-style-type: none"> <li>Monitors for CPU Cores, +3.3V, +5V, ±12V &amp; +5V Standby</li> <li>CPU Core 3-Phase-switching voltage regulator with auto-sense from 1.3V-1.5V</li> <li>Adjustable CPU clock frequency ratio settings (via BIOS)</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>Total of six 4-pin fan headers</li> <li>6x fans with status monitoring</li> <li>Status monitor with firmware/software on/off control</li> <li>Low noise fan speed control</li> <li>Pulse Width Modulated (PWM) fan connector</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 Monitor 2 support</li> </ul>
<b>LED</b>	<ul style="list-style-type: none"> <li>CPU Overheat LED</li> <li>System Overheat LED</li> <li>Suspend-state indicator 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</li> </ul>

#### OS Compatibility

- Please see our [OS Compatibility Chart](#)

## Parts List

#### Parts List

	Part Number	Qty	Description
<b>X6DVA-EG</b>	MBD-X6DVA-EG-O	1	X6DVA-EG Motherboard
<b>Manual(s)</b>	MNL-0746	1	Motherboard Manual for X6DVA-EG
<b>I/O Cables</b>	CBL-0010	1	9-pin Serial Port Cable
	CBL-022	1	ATX Floppy Cable
	CBL-036L-02	1	ATA 66/100 IDE LP Cable
	CBL-044L	1	2ft. Amphenol, SATA Cable
<b>Driver Disk</b>	CDR-INTC 1.20	1	Version 1.20 CD or later
<b>I/O Shield</b>	CSE-PT7	1	Motherboard I/O Shield
<b>Retention Module</b>	SKT-0159	1	CPU mounting plate

**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.

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