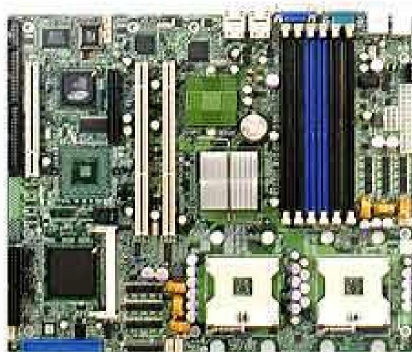


X6DVA-EG

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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

- Software**
 - Optional IPMI (Intelligent Platform Management Interface) 2.0
 - [Super Doctor III](#)

Memory Type	<ul style="list-style-type: none"> DDR333/266MHz buffered (registered) ECC SDRAM 72-bit, 184-pin gold-plated DIMMs
DIMM Sizes	<ul style="list-style-type: none"> 256 MB, 512 MB, 1GB, 2GB, 4GB**
Memory Voltage	<ul style="list-style-type: none"> 2.5 V only
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory) Supports Intel® x4 Single Device Data Correction (SDDC)
On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® E7320 chipset MCH + 6300ESB + PXH +82541GI
SATA	<ul style="list-style-type: none"> Intel 6300ESB (Hance Rapids) SATA Controller (2x Drive support) 2x SATA Ports RAID 0, 1, JBOD support
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 (Optional)
Network Controllers	<ul style="list-style-type: none"> Intel® 82541GI Dual Port Gigabit Controller Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Graphics	<ul style="list-style-type: none"> ATI Rage XL SVGA PCI video controller with 8 MB of video memory
Super I/O	<ul style="list-style-type: none"> Winbond 83627HF chip
Input / Output	
Serial ATA	<ul style="list-style-type: none"> Two Serial ATA ports Two SATA hard drives supported
IDE	<ul style="list-style-type: none"> Dual EIDE channels support up to four UDMA IDE devices Supports UDMA Mode 5, PIO Mode 4, and ATA/100
Floppy	<ul style="list-style-type: none"> 1 Floppy controller; 1.44 MB, 2.88 MB, 3-mode support
LAN	<ul style="list-style-type: none"> 2x RJ45 LAN ports
USB	<ul style="list-style-type: none"> 2x USB rear ports 2x USB internal headers USB 2.0 Compliant / 1.1 Compliant
VGA	<ul style="list-style-type: none"> 1x VGA port
Keyboard / Mouse	<ul style="list-style-type: none"> PS/2 keyboard and mouse ports
Serial Ports	<ul style="list-style-type: none"> 2 Fast UART 16550 serial ports
Parallel Port	<ul style="list-style-type: none"> 1 ECP / EEP parallel port header

Power Configurations	<ul style="list-style-type: none"> Watch Dog NMI ACPI/APM Power Management Main Switch Override Mechanism Wake-On-Ring (WOR) header Wake-On-LAN (WOL) header CPU Fan auto-off in sleep mode Power-on mode control for AC power loss recovery Internal/External modem remote ring-on
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PC Health Monitoring

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

OS Compatibility

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

Parts List

Parts List

	Part Number	Qty	Description
X6DVA-EG	MBD-X6DVA-EG-O	1	X6DVA-EG Motherboard
Manual(s)	MNL-0746	1	Motherboard Manual for X6DVA-EG
I/O Cables	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
Driver Disk	CDR-INTC 1.20	1	Version 1.20 CD or later
I/O Shield	CSE-PT7	1	Motherboard I/O Shield
Retention Module	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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