



Key Features

1. Dual Intel® 64-bit Xeon® Quad-Core or Dual-Core, with 667 / 1066 / 1333 MHz FSB
2. Intel® 5000V (Blackford VS) Chipset
3. Up to 16GB DDR2 667 & 533 SDRAM Fully Buffered DIMM (FB-DIMM)
4. Intel® (ESB2/Gilgal) 82563EB Dual-port Gigabit Ethernet Controller
5. 6x SATA 3.0Gbps Ports via ESB2 Controller
6. 1 (x8) & 1 (x4) in (x8) PCI-Express, 2x 64-bit 133/100MHz PCI-X, 2x 32-bit 33MHz PCI
7. ATI ES1000 Graphics with 16MB video memory
8. IPMI 2.0 (SIMLC) Slot



- Low Cost Xeon Dual-Core Blackford VS ServerBoard

Specifications

Product SKUs

MBD-X7DVL-E-O	X7DVL-E (Standard Retail Pack)
MBD-X7DVL-E-B	X7DVL-E (Bulk Pack)

Physical Stats

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

Processor/Cache

CPU	<p>Dual 771-pin LGA Sockets Supports up to two Intel® 64-bit Xeon® processor(s) of the same type below:</p> <ul style="list-style-type: none"> ○ Quad-Core Intel® Xeon® Processor 5300 sequence (Clovertown processor) up to 2.66 GHz ○ Dual-Core Intel® Xeon® Processor 5100/5000 sequence (Woodcrest/Dempsey processor) up to 3.73 GHz
System Bus	1333 / 1066 / 667 MHz system bus

System Memory

Memory Capacity	<p>Six 240-pin DIMM sockets Supports up to 16 GB 667 / 533MHz DDR2 ECC FB-DIMM memory Dual branch memory bus Memory must be populated in pairs</p>
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No Memory Mirroring support

Memory Type	667 / 533MHz FB-DIMM (Fully Buffered DIMM) ECC DDR2 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	512 MB, 1GB, 2GB, 4GB
Memory Voltage	1.8 V only 1.5V(AMB)
Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory) Supports Intel® x4 and x8 Single Device Data Correction (SDDC)

On-Board Devices

Chipset	Intel® 5000V (Blackford VS) chipset MCH + ESB2
SATA	Intel ESB2 SATA 3.0Gbps Controller RAID 0, 1, 5, 10 support
IPMI	Support for Intelligent Platform Management Interface v.2.0 200-pin IPMI slot (SIM1U) (Optional: AOC-SIMLC(+), AOC-SIM1U(+))
Network Controllers	Intel® (ESB2/Gilgal) 82563EB Dual-Port Gigabit Ethernet Controller Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output Intel® I/OAT support for fast, scaleable, and reliable networking
Graphics	ATI ES1000 controller with 16 MB of video memory
Super I/O	Winbond 83627HG chip

Input / Output

Serial ATA	Six Serial ATA ports Six SATA hard drives supported
IDE	

Supports UDMA Mode 5, PIO Mode 4,
and ATA/100

Floppy	1 Floppy controller; 1.44 MB, 2.88 MB
LAN	2x RJ45 LAN ports
USB	2x USB rear ports 2x USB internal headers Total 6 USB 2.0 Compliant / 1.1 Compliant
VGA	1x VGA Port
Keyboard / Mouse	PS/2 keyboard and mouse ports
Serial Port / Header	1 Fast UART 16550 serial port 1 Fast UART 16550 serial header
Parallel Port	1 Header for ECP / EEP parallel port

System BIOS

BIOS Type	BIOS	8Mb Flash EEPROM with Phoenix®
BIOS Features		Plug and Play (PnP) SMBIOS 2.3 DMI 2.1 PCI 2.2 ACPI 1.0 USB Keyboard support Hardware BIOS Virus protection