


Product SKUs	
MBD-X7DVL-3-O	● X7DVL-3 (Standard Retail Pack)
MBD-X7DVL-3-B	● X7DVL-3 (Bulk Pack)
Physical Stats	
Form Factor	● ATX
Dimensions	● 12" x 10" (30.5cm x 25.4cm)
Processor/Cache	
CPU	<ul style="list-style-type: none"> ● Dual 771-pin LGA Sockets ● Supports up to two Intel® 64-bit Xeon® processor(s) of the same type below: <ul style="list-style-type: none"> ○ Dual-Core Intel® Xeon® Processor 5100/5000 sequence (Woodcrest/Dempsey processor) with 2MB L2 Integrated Advanced Transfer Cache per core, 4MB L2 cache total, up to 3.73 GHz
System Bus	● 1333 / 1066 / 667 MHz system bus
System Memory	
Memory Capacity	<ul style="list-style-type: none"> ● 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 ● 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	● 256 MB, 512 MB, 1GB, 2GB, 4GB
Memory Voltage	<ul style="list-style-type: none"> ● 1.8 V only ● 1.5V(AMB)
Error Detection	<ul style="list-style-type: none"> ● 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	<ul style="list-style-type: none"> ● Intel® 5000V (Blackford VS) chipset ● MCH + ESB2
SAS	<ul style="list-style-type: none"> ● LSI 1068E PCI-E SAS Controller ● 8 SAS Ports supporting up to 8 SAS HDD ● RAID 0, 1, 10 support
SATA	<ul style="list-style-type: none"> ● Intel ESB2 SATA 3.0Gbps Controller ● RAID 0, 1, 10 support
IPMI	<ul style="list-style-type: none"> ● Support for Intelligent Platform Management Interface v.2.0 ● 200-pin IPMI slot ● (Optional: AOC-SIMLC) ● NOTE: KVM-over-LAN not supported - there is no DVO signal to the IPMI slot
Network Controllers	<ul style="list-style-type: none"> ● Two Intel® (ESB2/Gilgal) 82563EB Single-Port Gigabit Ethernet Controllers ● Supports 10BASE-T,

Chassis (Optimized for X7DVL-3)	
1U Chassis	<ul style="list-style-type: none"> ● SC811T-520 ● SC512F-520 (Mini 1U)
2U Chassis	<ul style="list-style-type: none"> ● SC825TQ-R700LPV ● SC825TQ-560LP ● SC823T-550LP
Tower / 4U Rackmount	<ul style="list-style-type: none"> ● SC743TQ-R760 ● SC743T-650 ● SC743T-645 (FAN-0091 re ● SC743i-645 (FAN-0091 rec
Mid-Tower	<ul style="list-style-type: none"> ● SC733TQ-645 (MCP-310-0 air shroud required) ● SC733T-645 ● SC733i-645
Important Chassis Notes	● To ensure system stability (minimum) ATX power su [8-pin (+12V) and 24-pin a required]
Expansion Slots	
Universal Slot	<ul style="list-style-type: none"> ● 1x (x8) PCI-e slot OR ● 1x 64-bit 133MHz PCI-X SL
PCI-X	● 1x 64-bit 133MHz PCI-X sl
PCI	● 1x 32-bit 33MHz PCI (3.3V
System BIOS	
BIOS Type	● 8Mb Flash EEPROM with I BIOS
BIOS Features	<ul style="list-style-type: none"> ● Plug and Play (PnP) ● SMBIOS 2.3 ● DMI 2.3 ● PCI 2.2 ● ACPI 1.0 ● BIOS rescue hot keys ● USB Keyboard support ● Hardware BIOS Virus prot
Management	
Software	<ul style="list-style-type: none"> ● Optional IPMI (Intelligent Management Interface) 2. ● Super Doctor III ● Watch Dog ● NMI
Power Configurations	<ul style="list-style-type: none"> ● ACPI Power Management ● Main Switch Override Men ● Wake-On-Ring (WOR) hea ● Wake-On-LAN (WOL) hea ● Power-on mode for AC pc recovery ● Internal / External modem ring-on
PC Health Monitoring	
CPU	<ul style="list-style-type: none"> ● Monitors for CPU Cores, ±12V ● 4-Phase-switching voltage with auto-sense from 0.83 ● Adjustable CPU Clock Fre Ratio
FAN	<ul style="list-style-type: none"> ● Total of six proprietary 4-headers supporting up to 6x fans with tachometer s monitoring ● Status monitor for speed ● Status monitor for on/off ● 3-pin fan support ● Low noise fan speed cont ● Pulse Width Modulated (F connectors
	● Monitoring for CPU and c

	100BASE-TX, and 1000BASE-T, RJ45 output
Graphics	<ul style="list-style-type: none"> XGI Volari™ Z7 PCI-E Graphics Processor
Clock Generator	<ul style="list-style-type: none"> ICS932S401EGLF
Super I/O	<ul style="list-style-type: none"> Winbond 83627HF chip
Input / Output	
SAS	<ul style="list-style-type: none"> Eight SAS ports Eight SAS hard drives supported
Serial ATA	<ul style="list-style-type: none"> Six Serial ATA ports Six SATA hard drives supported
IDE	<ul style="list-style-type: none"> Single EIDE channel supports up to two UDMA IDE devices (IDE-M, IDE-S) Supports UDMA Mode 5, PIO Mode 4, and ATA/100
Floppy	<ul style="list-style-type: none"> 1 Floppy controller; 1.44 MB 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 for up to 4-ports Total 6 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 Port / Header	<ul style="list-style-type: none"> 1 Fast UART 16550 serial port 1 Fast UART 16550 serial header
Parallel Port	<ul style="list-style-type: none"> 1 Header for ECP / EEP parallel port

Temperature	<ul style="list-style-type: none"> environment CPU thermal trip support Thermal Control for 6x fan connectors PSU I²C temperature sensor Thermal Monitor 2 (TM2) sensor
LED	<ul style="list-style-type: none"> CPU / System Overheat LED Suspend-State Indicator LED +5V Standby Alert LED
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header SDDC Support

Operating Environment / Compliance

RoHS	 <ul style="list-style-type: none"> RoHS Compliant 5/6, Servicing Exemption
Environmental Spec.	<ul style="list-style-type: none"> Operating Temperature: 1 (50° to 95° F) Non-operating Temperature: 70° C (-40° to 158° F) Operating Relative Humidity: 90% (non-condensing) Non-operating Relative Humidity: to 95% (non-condensing)

Parts List

Parts List			
	Part Number	Qty	Description
X7DVL-3	MBD-X7DVL-3-O	1	X7DVL-3 Motherboard
Manual(s)	MNL-xxxx	1	Motherboard Manual for X7DVL-3
I/O Cables	CBL-0022L	1	ATX Floppy Cable
	CBL-0036L-02	1	ATA 66/100 IDE LP Cable
	CBL-0044L	6	2ft. Amphenol, SATA Cable
Driver Disk	CDR-X7 1.02	1	Version 1.02 CD or later
I/O Shield	CSE-PT07L	1	Motherboard I/O Shield
Retention	SKT-0159	1	CPU Retention Module

Note: Items in a Standard Retail Package may differ from items in a Standard Bulk Package.