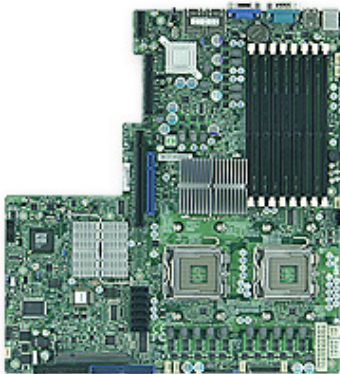


X7DWU

Products ▶ Motherboards ▶ Xeon Boards ▶ [X7DWU]



- 1600FSB UIO Dual Quad-Core / Dual-Core Xeon 5400 Chipset ServerBoard

Key Features

1. Dual Intel® 64-bit Xeon® Quad-Core or Dual-Core, with 1600 / 1333 / 1066 MHz FSB
2. Intel® 5400 (Seaburg) Chipset
3. Up to 64GB DDR2 800 / 667 / 533 SDRAM Fully Buffered DIMM (FB-DIMM) 1.8V or 1.5V supported
4. Intel® 82575EB Dual-port Gigabit Ethernet Controller w/ IOAT
5. 6x SATA 3.0Gbps Ports via ESB2 Controller
6. Left Side
1 (x8) PCI-Express (2.0) + 1 UIO or 1 (x16) PCI-Express (2.0)
Right Side
1 (x8) PCI-Express (2.0)
For 2U configuration, Please go to [UIO Riser Cards](#) page
7. ATI ES1000 Graphics with 32MB video memory
9. IPMI 2.0 (SIMSO) slot

Links & Resources

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



Specifications

Product SKUs

- MBD-X7DWU-O** ■ X7DWU (Standard Retail Pack)
- MBD-X7DWU-B** ■ X7DWU (Bulk Pack)

Physical Stats

- Form Factor** ■ Proprietary
- Dimensions** ■ 13.05" x 12.075" (33.2cm x 30.67cm)

Processor/Cache

- Dual 771-pin LGA Sockets
- Supports up to Dual **Intel® 64-bit Xeon®** processor(s) of the same type below:
 - **Quad-Core Intel® Xeon® Processor 5400/5300LV sequence (Harpertown /Clovertown processor)** up to 3.20 GHz
 - **Dual-Core Intel® Xeon® Processor 5200/5100LV sequence (Wolfdale/Woodcrest processor)** up to 3.40 GHz

- System Bus** ■ 1600 / 1333 / 1066 MHz system bus

Chassis (Optimized for X7DWU)

- 1U Chassis**
 - [CSE-815TQ-R650U](#)
 - [CSE-815S-560U](#)
 - [CSE-812L-520U](#)
- 2U Chassis**
 - [CSE-823MTQ-R700U](#)
 - [CSE-825MTQ-R700U](#)
 - [CSE-825TQ-R700U](#)
- Important Chassis Notes**
 - To ensure system stability, a 550W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 20-pin are required]

Expansion Slots

- Left Side**
 - 1 (x8) PCI-Express (2.0) + 1 UIO slots **or**
 - 1 (x16) PCI-Express (2.0)
- Right Side**
 - 1 (x8) PCI-Express (2.0)
- For 2U configuration, Please go to [UIO Riser Cards](#) page

System BIOS

System Memory

Memory Capacity	<ul style="list-style-type: none"> Eight 240-pin DIMM sockets Supports up to 64 GB 800* / 667 / 533MHz DDR2 ECC FB-DIMM memory Dual branch memory bus Memory must be populated in pairs Memory Sparing supported
Memory Type	<ul style="list-style-type: none"> 800* / 667 / 533MHz FB-DIMM (Fully Buffered DIMM) ECC DDR2 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	<ul style="list-style-type: none"> 256MB, 512MB, 1GB, 2GB, 4GB, 8GB**
Memory Voltage	<ul style="list-style-type: none"> 1.8 V or 1.5 V
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® 5400 (Seaburg) chipset MCH + ESB2
SATA	<ul style="list-style-type: none"> Intel ESB2 SATA 3.0Gbps Controller RAID 0, 1, 5, 10 support (Windows only) RAID 0, 1, 10 support (Linux)
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 / 1.5 200-pin IPMI slot (SIMSO(+)) (Optional: AOC-SIMSO(+)) For Dedicated LAN, cable CBL-0177L must be used (cable sold separately)
Network Controllers	<ul style="list-style-type: none"> Intel® 82575EB 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	<ul style="list-style-type: none"> ATI ES1000 controller with 32 MB of video memory
Super I/O	<ul style="list-style-type: none"> Winbond 83627HF chip
Clock Generator	<ul style="list-style-type: none"> ICS 401 chip

Input / Output

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) including CF(Compact Flash) Card Compact Flash (40-pin connector, IDE 1, single channel) slot Supports UDMA Mode 5, PIO Mode 4, and ATA/100
Floppy	<ul style="list-style-type: none"> 1 Floppy controller; 1.44 MB
LAN	<ul style="list-style-type: none"> 2x RJ45 LAN ports
USB	<ul style="list-style-type: none"> 2x USB rear ports 3x USB internal headers Total 5 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

BIOS Type ■ 16Mb Flash EEPROM with Phoenix® BIOS

BIOS Features

- Plug and Play (PnP)
- DMI 2.3
- PCI 2.2
- ACPI 1.0 / 2.0
- USB Keyboard support
- SMBIOS 2.3

Management

■ Optional IPMI (Intelligent Platform Management Interface) 1.5 / 2.0

Software

- Super Doctor III
- Watch Dog
- NMI

Power Configurations

- ACPI Power Management
- Main Switch Override Mechanism
- Wake-On-Ring (WOR) header
- Wake-On-LAN (WOL) header
- Power-on mode for AC power recovery
- Internal / External modem ring-on

PC Health Monitoring

CPU

- Monitors for CPU Cores, +1.8V, +3.3V, +5V, ±12V, +3.3V Standby, +5V Standby, VBAT, HT, Memory, Chipset Voltages.
- 5 Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V

FAN

- Total of eight 4-pin fan headers supporting up to 8 fans
- 8x fans with tachometer status monitoring
- Status monitor for speed control
- Support 3-pin fans (w/o speed control)
- Pulse Width Modulated (PWM) fan connectors

Temperature

- Monitoring for CPU and chassis environment
- CPU thermal trip support
- Thermal Control for 8x fan connectors
- PC temperature sensing logic
- Thermal Monitor 2 (TM2) support
- PECI

LED

- CPU / System Overheat LED
- UID / Remote UID

Other Features

- Chassis intrusion detection
- Chassis intrusion header
- SDDC Support

Operating Environment / Compliance

■ RoHS Compliant 6/6, Pb Free

Environmental Spec.

- Operating Temperature: 10° to 35°C (50° to 95°F)
- Non-operating Temperature: -40° to 70°C (-40° to 158°F)
- Operating Relative Humidity: 8% to 90% (non-condensing)
- Non-operating Relative Humidity: 5 to 95% (non-condensing)

OS Compatibility

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

Parts List

	Part Number	Qty	Description
X7DWU	MBD-X7DWU-O	1	X7DWU Motherboard
Manual(s)	MNL-0980	1	Motherboard Manual for X7DWU
I/O Cables	CBL-036L-03	1	ATA 66/100 IDE LP Cable
	CBL-0044L	6	2ft. Amphenol, SATA Cable
	CBL-022L	1	ATX Floppy Cable
Driver Disk	CDR-X7 1.23	1	Version 1.23 CD or later
I/O Shield	CSE-PT7L	1	Motherboard I/O Shield

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

* For 1600MHz FSB CPUs only

**This memory modules are not tested yet

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