

X7DWN+

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• UIO, 1600FSB Quad-Core Xeon 5400 (Seaburg) 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 128GB DDR2 800* / 667 / 533 SDRAM Fully Buffered DIMM (FB-DIMM)
4. Intel® 82575EB Dual-port Gigabit Ethernet Controller
5. 6x SATA 3.0Gbps Ports via ESB2 Controller
6. 3 (x8) PCI-Express (2 w/ Gen 2.0), 1 (x4) PCI-Express (Using x8 slot), 2x 64-bit 133MHz PCI-X, 1 UIO slots (Support Supermicro UIO Cards)
7. ATI ES1000 Graphics with 32 MB video memory
8. 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-X7DWN+-O** ■ X7DWN+ (Standard Retail Pack)
- MBD-X7DWN+-B** ■ X7DWN+ (Bulk Pack)

Physical Stats

- Form Factor** ■ Enhanced Extended ATX
- Dimensions** ■ 13.05" x 13.68" (33.1cm x 34.7cm)

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 X7DWN+)

- 2U Chassis** ■ [CSE-825TQ-R700LP](#) (Air shroud, MCP-310-82502-0N, need to order separately)
- Tower / 4U Rackmount** ■ [CSE-745TQ-R800](#)
- Important Chassis Notes** ■ To ensure system stability, a 550W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required]

Expansion Slots

- PCI-Express** ■ 3 (x8) PCI-e slots (2 w/ Gen 2.0)
 ■ 1 (x4) PCI-e slot (Using x8 slot)
- PCI-X** ■ 2x 64-bit 133MHz PCI-X (3.3V) slots
- UIO** ■ 1x UIO slot

System BIOS

- BIOS Type** ■ 8Mb 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

System Memory

| | |
|------------------------|--|
| Memory Capacity | <ul style="list-style-type: none"> Sixteen 240-pin DIMM sockets Supports up to 128 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"> 512 MB, 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

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|----------------------------|--|
| Chipset | <ul style="list-style-type: none"> Intel® 5400 (Seaburg) chipset 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® 82575 Dual-Port Gigabit Ethernet Controller Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output Intel® VOAT 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 83627HG chip |

Input / Output

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|-----------------------------|--|
| 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 Serial header |


Management

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|-----------------------------|--|
| Software | <ul style="list-style-type: none"> Optional IPMI (Intelligent Platform Management Interface) 2.0 Super Doctor III Watch Dog NMI |
| Power Configurations | <ul style="list-style-type: none"> ACPI Power Management Main Switch Override Mechanism Wake-On-Ring (WOR) header Wake-On-LAN (WOL) header Keyboard Wakeup from Soft-Off Power-on mode for AC power recovery |

PC Health Monitoring

| | |
|-----------------------|--|
| CPU | <ul style="list-style-type: none"> Monitors for CPU Cores, +1.8V, +3.3V, +5V, ±12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages. 5-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V |
| FAN | <ul style="list-style-type: none"> Total of eight fan headers supporting up to 8 fans Four 4-pin fan headers Four 3-pin fan headers 8x fans with tachometer status monitoring Status monitor for speed control Support 3-pin fans Low noise fan speed control Pulse Width Modulated (PWM) fan connectors |
| Temperature | <ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 8x fan connectors Thermal Monitor 2 (TM2) support PECI |
| LED | <ul style="list-style-type: none"> CPU / System Overheat LED |
| Other Features | <ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header SDDC Support |

Operating Environment / Compliance

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|----------------------------|--|
| RoHS |  <ul style="list-style-type: none"> RoHS Compliant 6/6, Pb Free |
| Environmental Spec. | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Please see our OS Compatibility Chart |

Parts List

Parts List

| | Part Number | Qty | Description |
|--------------------|-----------------------------|------------|---|
| X7DWN+ | MBD-X7DWN+ -O | 1 | X7DWN+ Motherboard |
| Manual(s) | MNL-0912 | 1 | Motherboard Manual for X7DWN+ |
| I/O Cables | CBL-022L | 1 | ATX Floppy Cable |
| | CBL-036L-03 | 1 | ATA 66/100 IDE LP Cable |
| | CBL-0044L | 6 | 2ft. Amphenol, SATA 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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