X7DWA-N

Products | Motherboards | Xeon Boards | [X7DWA-N]

Key Features

- UIO, 1600FSB Quad -Core Xeon 5400 (Seaburg) Workstation

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 (FBDIMM)
4. Intel® 82575EB Dual-port Gigabit Ethernet Controller
5. 6x SATA 3.0Gbps Ports via ESB2 Controller
6. 2 (x16) PCI-Express 2.0, 2x 64-bit 133MHz PCI-X, 2x 32-bit (3.3V) PCI, 1x UIO slots (Support Supermicro UIO Cards)
7. HD 7.1 Channel Audio
8. Low Profile IPMI 2.0 (SIMLP) Slot
9. Dual IEEE 1394 Ports

Links & Resources

Tested Memory List

Motherboard Manual

Update Your BIOS

Download the Latest Drivers and Utilities

Specifications

Product SKUs

MBD-X7DWA-N - O	X7DWA-N (Standard Retail Pack)
MBD-X7DWA-N - B	X7DWA-N (Bulk Pack)

Physical Stats

Form Factor	Extended ATX
Dimensions	13" x 12" (33.0cm x 31.0cm)

Processor/Cache

CPU	• Dual 771-pin LGA Sockets • Supports up to Dual Intel® 64-bit Xeon® processor(s) of the same type see 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

System Memory

Memory Capacity	• Eight 240-pin DIMM sockets • Supports up to 64 GB 800* / 667 / 533MHz DDR2 ECC FBDIMM memory • Dual branch memory bus • Memory must be populated in pairs • Memory Sparing supported
Memory Type	• 800* / 667 / 533MHz FBDIMM (Fully Buffered DIMM) ECC DDR2 SDRAM 72 bit, 240-pin gold-plated DIMMs
DIMM Sizes	• 512 MB, 1GB, 2GB, 4GB , 8GB**
Memory Voltage	• 1.8 V or 1.5 V
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® 5400 (Seaburg) chipset • ESB2
SATA	• Intel ESB2 SATA 3.0Gbps Controller • RAID 0, 1, 5, 10 support (Windows only) • RAID 0, 1, 10 support (Linux)
IPMI	• Support for Intelligent Platform Management Interface v.2.0 / 1.5 • 200-pin IPMI slot (SIMLP) • **(Optional: AOC-SIMLP-B)** • **(Optional: AOC-SIMLP-3)** with 3rd LAN support • **NOTE:** KVM-over-LAN not supported - there is no DVO signal to the IPMI slot
Network Controllers	• 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
Super I/O	• Winbond 83627HG chip
Audio	• ALC 883 High Definition 7.1 Channel Audio

Input / Output

Serial ATA	• Six Serial ATA ports • Six SATA hard drives supported
IDE	• Single EIDE channel supports up to two UDMA IDE devices (IDE0, IDE5) including CF(Compact Flash) Card • Compact Flash (40pin connector, IDE 1, single channel) slot • Supports UDMA Mode 5, PIO Mode 4, and ATA/100
Floppy	• 1 Floppy controller; 1.44 MB
LAN	• 2x RJ45 LAN ports
USB	• 4x USB rear ports • 1x USB internal header • Total 5 USB 2.0 Compliant / 1.1 Compliant
Audio	• High Definition 7.1 Channel Audio • Line-in / Line-out / Microphone Ports
Keyboard / Mouse	• PS/2 keyboard and mouse ports
Serial Port / Header	• 1 Fast UART 16550 serial port • 1 Serial header
Parallel Port	• 1 ECP / EEP parallel port
Firewire	• 2x IEEE 1394 ports (headers)

Chassis (Optimized for X7DWA -N)

Tower / 4U Rackmount	• CSE-743TQ-865 • CSE-743T-645
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	• 2 (x16) PCI-e (Gen 2.0) slots
PCI-X	• 2x 64-bit 133MHz PCI-X (3.3V) slots
PCI	• 2x 32-bit PCI (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

Management

Software	• Optional IPMI (Intelligent Platform Management Interface) 2.0 • SuperDoctor® III • Watch Dog • NMI
Power Configurations	• ACPI Power Management • Wake-On-Ring (WOR) header • Wake-On-LAN (WOL) header • Keyboard Wakeup from Soft-Off • CPU Fan autooff in sleep mode • Power-on mode for AC power recovery • Suspend to RAM (STR)

PC Health Monitoring

CPU	• 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	• 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/ speed control) • Low noise fan 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 • PECI • Thermal Monitor 2 (TM2) support
LED	• CPU / System Overheat LED • Suspend-state indicator LED
Other Features	• Chassis intrusion detection • Chassis intrusion header • SDDC Support

Operating Environment / Compliance

RoHS	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

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

Parts List

Parts List

	Part Number	Qty	Description
X7DWA-N	MBD-X7DWA-N -O	1	X7DWA-N Motherboard
Manual(s)	MNL-0945	1	Motherboard Manual for X7DWAN
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	MCP260-74301-ON	1	Motherboard I/O Shield

Optional Parts List

	Part Number	Qty	Description
I/O Tray	MCP290-00034-0B	-	Black 4?tray, 2 USB + audio + 1394 port
	MCP290-00034-0W	-	Beige 4?tray, 2 USB + audio + 1394 port
I/O Cable	CBL-0173L	-	IEEE 1394 Internal to External Cable

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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