

SUPER[®] X7DWA-N Serverboard Specifications

1. Quad-core Intel[®] Xeon[®] 5400 / 5200 / 5300LV / 5100LV Sequence supported
2. Intel 5400 (Seaburg) chipset 1600/1333/1066MHz FSB
3. 64GB of ECC Fully-Buffered DIMM (FBD) DDRII 800/667/533 MHz SDRAM
4. 1 UIO slot (support SMC UIO cards)
 - 2 PCI-E x16 (Gen 2.0), 2 PCI-X 133MHz, 2 PCI
5. Dual 1394 Firewire
6. Intel ESB2 for 6 SATA (3 Gbps); RAID 0, 1, 10
7. Dual Intel 82575 Gigabit Ethernet controllers (w/ IOAT support)
8. 7.1 channel HD-audio
9. SIMLP 2.0 slot for IPMI 2.0 server management



Processor/Cache

Processor	Quad-core Intel [®] Xeon [®] 5400 / 5200 / 5300LV / 5100LV Sequence
Cache	12M/L2 cache
System Bus	1600/1333/1066MHz

Chipset

Intel[®] 5400 (Seaburg) chipset
MCH + Intel ESB2 + Intel 82575

System Memory

Memory Capacity	Eight DIMM sockets for up to 64 GB of fully-buffered DIMM (FBD) DDRII 800/667/533 memory (Memory must be populated in pairs)
Memory Type	Fully-Buffered DIMM (FBD) DDRII 800/667/533 SDRAM 72-bit ECC, 240-pin gold-plated DIMMs
DIMM Sizes	8GB, 4GB, 2GB, 1GB, 512MB
Memory Voltage	1.8V only
Error Detection	Corrects single-bit errors, detects double-bit errors (using ECC memory), and supports Intel [®] Single Device Data Correction (SDDC)

Integrated On-Board

SATA; RAID	Intel ESB2 for 6 SATA with host RAID 0, 1, 10 support
LAN	Dual LAN with Intel [®] 82575 Gigabit Ethernet controller (w/ IOAT support)
Firewire	Dual 1394 Firewire
Audio	7.1 channel HD-audio
Super I/O controller	Winbond [®] 83627HF chip

Input/Output

PCI-X/PCI Express	1 UIO slot (support SMC UIO cards), 2 PCI-E x16 (Gen 2.0), 2 PCI-X 133MHz, 2 PCI
SATA	Six ports
USB	Five USB 2.0-compliant ports (Four USB rear connectors, one internal header)
IDE	ATA/100 EIDE channels for a total of two IDE devices backward compatible/ Compact flash card support
Serial ports	Two serial ports (1 port & 1 header)
Floppy controller	1.44MB support
Keyboard/Mouse	Two PS/2 ports

Serverboard Management

Hardware	Watch Dog, NMI, SIMLP 2.0 slot
Software	Super ● Doctor III, IPMI 2.0
Thermal Control	4-pin PWM & 3-pin fan speed control & overheat LED indication
PC Health Monitoring	Monitors CPU voltages, +3.3V, +5V, +12V, -12V & +5V standby and total of 8-fan status, supports system management utility, chassis intrusion header
Other Features	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC, TM2 & CPU thermal trip support for processor protection
BIOS	Phoenix 8 Mb Flash ROM

Mechanical

Recommended Chassis	2U, 3U, 4U/Tower
Serverboard Size	Ext. ATX 12" x 13"