



Products ▶ Motherboards ▶ Xeon® 3000 Boards ▶ [**PDSMi-LN4+**]



- Best Server Network Appliance
- Most Cost Effective UP Solution
- Best Single CPU Dual Core Server
- Thermal Optimized 1U & 4LAN Design

Key Features

1. Intel® Xeon® 3200 / 3000 Series, Core™ 2 Quad / Duo / Extreme Series, Pentium® D, Pentium Extreme Edition, Pentium 4 & Celeron D in LGA775 Package (FSB 1066/800/533)
2. Intel® 3000 (Mukilteo-2) Chipset
3. Up to 8GB unbuffered ECC / non-ECC DDR2 667/533 SDRAM
4. 4x Intel® 82573V/L PCI-e Gigabit LAN Ports
5. Built-in SATA ICH7R Controller
4x SATA (3 Gbps) Drive with RAID 0, 1, 5, 10 Support
6. 1x 64-bit 133MHz PCI-X,
1x 32-bit 33MHz PCI
7. On board XGI Volari Z7 Graphics
8. IPMI 2.0 Support (AOC-IPMI20-E)

Product SKUs

MBD-PDSMi-LN4+-O	PDSMi-LN4+ (Standard Retail Pack)
MBD-PDSMi-LN4+-B	PDSMi-LN4+ (Bulk Pack)

Physical Stats

Form Factor	ATX
Dimensions	12.0" width x 9.6 " length , (30.5cm x 24.4cm), 6 layers

Processor/Cache

CPU	Single LGA775 ZIF Socket Supports a Quad-Core Intel® Xeon® 3200 series processor Supports a Dual-Core Intel® Xeon® 3000 series processor Supports a Quad-Core Intel® Core™2 Extreme series processor Supports an Intel® Core™2 Quad series processor Supports an Intel® Core™2 Duo series processor Supports an Intel® Pentium® processor E2000 series Supports a Dual-Core Intel® Pentium® D processor Supports an Intel® Pentium® Extreme Edition processor Supports an Intel® Pentium® 4 processor Supports an Intel® Celeron® processor E1000 series
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Chassis (Optimized for PDSMi-LN4+)

4U / Tower	SC743i-645
Important Note	To ensure system stability, a ATX power supply w/ 4A (minimum) on 5V Standby is required Only this Supermicro 1U chassis is recommended for this Network Building Block Solution

Expansion Slots

PCI-X	1x 64-bit PCI-X 133MHz slot
PCI	1x 32-bit 33MHz PCI (5V) slot
Note	Riser Card required for 1U systems

System BIOS

BIOS Type	8Mb Flash EEPROM with Phoenix BIOS®
BIOS Features	Plug and Play (PnP) DMI 2.3 support PCI 2.2 ACPI 1.0 SMBIOS 2.3 USB Keyboard support

Management

Software	Optional IPMI (Intelligent Platform Management Interface)
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Supports an **Intel® Celeron® processor 400 series**

NOTE: This board DOES NOT support Q9000, E8000, E7000, E5000 series or 45nm processor

System Bus 1066 / 800 / 533 MHz system bus

System Memory

Memory Capacity Four 240-pin DIMM sockets
Supports up to 8 GB of unbuffered ECC / non-ECC DDR2 667/533MHz memory (Dual Channel)

Memory Type DDR2 667/533MHz unbuffered ECC / non-ECC SDRAM, 240-pin gold-plated DIMMs

DIMM Sizes 256 MB, 512 MB, 1 GB, 2GB

Memory Voltage 1.8V only

On-Board Devices

Chipset Intel 3000 (Mukilteo-2) chipset
ICH7R + PXH-V + Intel® 82573V + Intel® 82573L

Serial ATA Intel® ICH7R SATA2 (3 Gbps) controller built-in
Intel:
RAID 0, 1, 5, 10 support (Windows Only)
Adaptec:
RAID 0 (Two, three, four drives only)
RAID 1 (Two hard drives only)

IPMI 1U support for Intelligent Platform Management Interface v.2.0 (**Optional: AOC-IPMI20-E**)

Network Dual double-stack ports using 1x Intel® 82573V

2.0

SuperDoctor® III
Watch Dog
NMI
W83793 H/W Monitor

Power Configurations ACPI/APM Power Management
Main Switch Override Mechanism
Wake-On-Ring (WOR) header
Wake-On-LAN (WOL) header
Power-on mode control for AC power loss recovery
Internal / External Modem Rign-on

PC Health Monitoring

Voltage Monitors for CPU Cores, +1.5V, +3.3V, +5, ±12V, +5V Standby
CPU Core 3-Phase-switching voltage regulator with auto-sense from 0.8375V-1.6000V
Adjustable CPU clock frequency ratio

FAN Fan Speed Control
6x 4-pin fan headers
6x fans with tachometer monitoring
Status monitor with firmware speed control
Low noise fan speed control
Status monitor for on/off control
Support 3-pin fans (without speed control)
Pulse Width Modulated (PWM) fan connector

Temperature Monitoring for CPU and chassis environment
CPU thermal trip support
Thermal Monitor 2 (TM2) support
PECI

LED CPU / System Overheat LED

Controllers and 3x Intel® 82573L Gigabit PCI-Express Ethernet Controllers, Four ports total
Supports 10Base-T, 100Base-TX, 1000BASE-TX, RJ45 output

VGA On-board XGI Volari Z7 graphics

Super I/O Winbond 83627HG chip

Clock Generator CK410

Input / Output

Serial ATA Four Serial ATA ports (3 Gbps performance)
Four SATA hard drives supported

IDE One EIDE channel supports up to two UDMA IDE devices
IDE Master / Slave 2 ports
Supports UDMA Mode 5, PIO Mode 4, and ATA/100
White Connector for Compact Flash (CF, 40-pin IDE connector) card only

Floppy 1 Floppy controller; 1.44 MB

LAN 4x RJ45 LAN ports

USB USB 2.0 compliant / 1.1 compatible
4x internal USB headers
2x rear ports

VGA 1x VGA Port

Keyboard / Mouse PS/2 keyboard and mouse ports

Standby Power alert LED

Other Features Chassis Intrusion Detection
Chassis Intrusion Header

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](#)

Regulatory

FCC Passed to meet FCC standard requirement

Serial Ports 1x Fast UART 16550 serial port
 1x Header

Parallel Port 1x ECP / EEP Parallel Header

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

Parts List

Standard Retail Package

	Part Number	Qty	Description
PDSMi-LN4+ Manual(s)	MBD-PDSMi-LN4+-O	1	PDSMi-LN4+ Motherboard
	MNL-0895	1	Motherboard Manual for PDSMi-LN4+
I/O Cables	CBL-0022L	1	ATX Floppy Cable with three heads
	CBL-0036L-03	1	ATA 66/100 IDE LP Cable
	CBL-0044L	4	SATA Cable (2Ft.)
Driver Disk	CDR-PD	1	Version 1.20 (or newer) CD
I/O Shield	MCP-260-0003-00	1	I/O Shield for PDSMi-LN4+

Optional Parts List

	Part Number	Qty	Description
Heat Sink	SNK-P0016	-	1U, Pentium® D LGA775, Passive Heatsink
Riser Card	CSE-RR1U-X	-	1U 64-bit PCI-X Riser Card