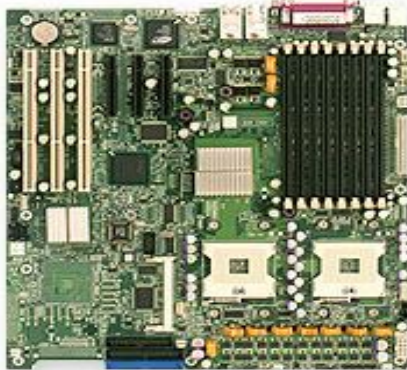


X6DHE-G2



Key Features

1. Dual Intel® 64-bit Xeon® Support, up to 3.80 GHz, 800 MHz FSB
2. Intel® E7520 (Lindenhurst) Chipset
3. Up to 16GB DDR2 400 SDRAM
4. Intel® 82546GB Dual-port Gigabit Ethernet Controllers
5. 2x SATA Ports via ICH5R Controller
6. 2 (x8) & 1 (x4) PCI-Express, 1x 64-bit 133MHz PCI-X, 2x 64-bit 100MHz PCI-X
7. IPMI 2.0 Socket
8. ATI RageXL 8MB Graphics

Physical Stats

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| Form Factor | ▪ Extended ATX |
| Dimensions | ▪ 12" x 13.05" (30.5cm x 33.2cm) |

Processor/Cache

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|-------------------|--|
| CPU | <ul style="list-style-type: none">▪ Dual 604-pin FC-mPGA4 Sockets▪ Supports up to two Intel® 64-bit Xeon® processor(s) of the same type below:<ul style="list-style-type: none">▪ Xeon (Nocona) CPU with 1MB L2 Integrated Advanced Transfer Cache, up to 3.60 GHz▪ Xeon (Irwindale) CPU with 2MB L2 Integrated Advanced Transfer Cache, up to 3.80 GHz▪ Xeon LV (Low Voltage) CPU, up to 2.8 GHz |
| System Bus | ▪ 800 MHz system bus |

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| Operating System Software | <ul style="list-style-type: none">▪ Supports 64-bit Operating Systems▪ Supports 32-bit Operating Systems▪ OS Compatibility Chart |
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System Memory

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| Memory Capacity | <ul style="list-style-type: none">▪ Eight 240-pin DIMM sockets▪ Supports up to 16 GB DDR2 400MHz memory▪ Dual channel memory bus▪ Memory must be populated in pairs▪ Single-rank modules are recommended for 6+ DIMM support |
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| Memory Type | ▪ DDR2 400MHz buffered (registered) ECC SDRAM 72-bit, 240-pin gold-plated DIMMs |
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| DIMM Sizes | ▪ 256 MB, 512 MB, 1GB, 2GB |
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| Memory Voltage | ▪ 1.8V only |
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| Error Detection | <ul style="list-style-type: none">▪ Corrects single-bit errors▪ Detects double-bit errors (using ECC memory)▪ Supports Intel® x4 Single Device Data Correction (SDDC) |
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Chassis (Optimized for X6DHE-G2)

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| 2U Chassis | <ul style="list-style-type: none">▪ SC823i-550LP▪ SC823i-R500RC |
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|-----------------------------|--|
| Tower / 4U Rackmount | <ul style="list-style-type: none">▪ SC743i-R760▪ SC743i-650 |
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| Important Chassis Notes | <ul style="list-style-type: none">▪ To ensure system stability, a 420W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required]▪ Chassis must have CPU mounting holes required for 800MHz FSB CPUs with this serverboard. |
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Expansion Slots

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| PCI-Express | <ul style="list-style-type: none">▪ 2 (x8) PCI-e slots▪ 1 (x4) PCI-e slot |
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| PCI-X | <ul style="list-style-type: none">▪ 1x 64-bit 133MHz PCI-X (3.3V) slot▪ 2x 64-bit 100MHz PCI-X (3.3V) slots |
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Input / Output

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|-------------------|---|
| Serial ATA | <ul style="list-style-type: none">▪ Two Serial ATA ports▪ Two SATA hard drives supported |
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| IDE | <ul style="list-style-type: none">▪ Dual EIDE channels support up to four UDMA IDE devices▪ Supports UDMA Mode 5, PIO Mode 4, and ATA/100 |
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| Floppy | ▪ 1 Floppy controller; 1.44 MB, 2.88 MB, 3-mode support |
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| LAN | ▪ 2x RJ45 LAN ports |
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| USB | <ul style="list-style-type: none">▪ 2x USB rear ports▪ 3x USB internal headers▪ USB 2.0 Compliant / 1.1 Compliant |
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| VGA | ▪ 1x VGA Port |
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| Keyboard / Mouse | ▪ PS/2 keyboard and mouse ports |
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| Serial Port / Header | <ul style="list-style-type: none">▪ 1 Fast UART 16550 serial port▪ 1 Fast UART 16550 serial header |
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| Parallel Port | ▪ 1 ECP / EEP parallel port |
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On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® E7520 chipset MCH + ICH5R + PXH +82546GB
SATA	<ul style="list-style-type: none"> ICH5R SATA Controller RAID 0, 1, JBOD support
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 (Optional: AOC-IPMI20-E)
Network Controllers	<ul style="list-style-type: none"> Intel® 82546GB Dual Port Gigabit Controller Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Graphics	<ul style="list-style-type: none"> ATI Rage XL SVGA PCI video controller with 8 MB of video memory
Super I/O	<ul style="list-style-type: none"> National 87427 chip

System BIOS	
BIOS Type	<ul style="list-style-type: none"> 8Mb Flash EEPROM with Phoenix® BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) SM BIOS 2.3 DMI 2.1 ACPI 1.0 Fan Speed Control

Management	
Software	<ul style="list-style-type: none"> Optional IPMI (Intelligent Platform Management Interface) 2.0 SuperDoctor® III Watch Dog NMI
Power Configurations	<ul style="list-style-type: none"> ACP/APM Power Management Main Switch Override Mechanism Wake-On-Ring (WOR) header Wake-On-LAN (WOL) header CPU Fan auto-off in sleep mode Power-on mode control for AC power loss recovery Internal/External modem remote ring-on



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PC Health Monitoring	
Voltage	<ul style="list-style-type: none"> Monitors for CPU Cores, +3.3V, +5V, ±12V & +3.3V Standby CPU Core 3-Phase-switching voltage regulator with auto-sense from 0.8375V-1.6V
FAN	<ul style="list-style-type: none"> Total of four 4-pin and four 3-pin fan headers 8x fans with status monitoring Status monitor with firmware/software on/off control Low noise fan speed control 4x Pulse Width Modulated (PWM) fan connector
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support Thermal Monitor 2 support
LED	<ul style="list-style-type: none"> CPU Overheat LED System Overheat LED Suspend-state indicator LED
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header SDDC

Product SKUs	
MBD-X6DHE-G2-0	<ul style="list-style-type: none"> X6DHE-G2 (Standard Retail Pack)
MBD-X6DHE-G2-B	<ul style="list-style-type: none"> X6DHE-G2 (Bulk Pack)

Parts List			
	Part Number	Qty	Description
X6DHE-G2	MBD-X6DHE-G2-0	1	X6DHE-G2 Motherboard
Manual(s)	MNL-072Z	1	Motherboard Manual for X6DHE-G2
I/O Cables	CBL-0010L-01	1	9-pin Serial Port Cable
	CBL-0022L	1	ATX Floppy Cable
	CBL-0036L-02	1	ATA 66/100 IDE LP Cable
	CBL-0044L	1	2ft. Amphenol, SATA Cable
	CBL-0083	1	-
Driver Disk	CDR-INTC 1.20	1	Version 1.20 CD or later
I/O Shield	CSE-PT07L	1	Motherboard I/O Shield