

X7DCL-i

Products > Motherboards > Xeon Boards > [X7DCL-i]



- DDR2, Quad-Core Xeon 5100 (San Clemete) ServerBoard

Key Features

1. Dual Intel® 64-bit Xeon® Quad-Core or Dual-Core, with 1333 / 1066 MHz FSB
2. Intel® 5100 (San Clemente) Chipset
3. Up to 48GB 667/533MHZ DDR2 ECC Register SDRAM *
4. Intel® 82573V & 82573L Gigabit Ethernet Controller
5. 6x SATA (3 Gbps) Ports via ICH9R Controller
6. 2 (x8) PCI-e, 1 (x4) PCI-e (using x8 slot), 3x 32-bit PCI slots
7. XGI Z9 Graphics with 32MB video memory
8. Low Profile IPMI 2.0 (SIMLC) Slot

Links & Resources

- ▶ [Tested Memory List](#)
- ▶ [Motherboard Manual](#)
- ▶ [Update Your BIOS](#)
- ▶ [Download the Latest Drivers and Utilities](#)

Specifications

Product SKUs	
MBD-X7DCL-i-O	X7DCL-i(Standard Retail Pack)
MBD-X7DCL-i-B	X7DCL-i(Bulk Pack)

Physical Stats	
Form Factor	ATX
Dimensions	12.05" x 10" (30.6cm x 25.4cm)

Processor/Cache	
CPU	<ul style="list-style-type: none"> ▪ Dual 771-pin LGA Sockets ▪ Supports up to Dual Intel® 64-bit Xeon®processor(s) of the same type below : <ul style="list-style-type: none"> ▪ Quad-Core Intel® Xeon®Processor 5400/5300 sequence (Harpertown /Clovertown processor) up to 3.16 GHz ▪ Dual-Core Intel® Xeon®Processor 5200/5100 sequence (Wolfdale/Woodcrest processor) up to 3.40 GHz
System Bus	1333 / 1066 MHz system bus
Operating System Software	<ul style="list-style-type: none"> ▪ Supports 64-bit Operating Systems ▪ Supports 32-bit Operating Systems

System Memory	
Memory Capacity	<ul style="list-style-type: none"> ▪ Six 240-pin DIMM sockets ▪ Supports up to 48GB 667/ 533MHz DDR2 ECC Register Single/Dual Rank memory * ▪ Dual channel memory bus ▪ Memory must be populated in pairs
Memory Type	667/533MHz Register DDR2 ECC Single/Dual Rank SDRAM 72-bit, 240-pin gold-plated DIMMs *
DIMM Sizes	256MB, 512MB, 1GB, 2GB, 4GB, 8GB**
Memory Voltage	1.8V only

Error Detection	
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 (SDCC)

On-Board Devices	
Chipset	<ul style="list-style-type: none"> ▪ Intel® 5100 (San Clemente) chipset ▪ Intel® ICH9R
SATA	<ul style="list-style-type: none"> ▪ Intel ICH9R SB SATAII Controller ▪ RAID 0, 1, 5, 10 support (Window s 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 (SIMLC) (Optional: AOC-SIMLC) ▪ NOTE: KVM-over-LAN supported w / AOC-SIM1U+ - PCB 1.1A only
Network Controllers	<ul style="list-style-type: none"> ▪ Intel® 82573V & 82573L Gigabit Ethernet Controller ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Graphics	XGI Z9 with 32 MB of video memory
Super I/O	Winbond W83627HG-AW chip
Clock Generator	CK505 chip

Input / Output	
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 card ▪ Supports UDMA Mode 5, PIO Mode 4, and ATA/100 ▪ Compact Flash (40-pin connector, IDE 1, single channel) slot
Floppy	1 Floppy controller; 1.44 MB, 2.88 MB
LAN	2x RJ45 LAN ports
USB	<ul style="list-style-type: none"> ▪ 2x USB rear ports ▪ 3x USB internal header ▪ 5 total USB ports, 2.0 Compliant / 1.1 Compliant
VGA	1x VGA Port
Keyboard / Mouse	PS/2 keyboard and mouse ports
Serial Port / Header	<ul style="list-style-type: none"> ▪ 1 Fast UART 16550 serial port ▪ 1 Header

Chassis (Optimized for X7DCL-i)	
1U Chassis	<ul style="list-style-type: none"> ▪ CSE-512F-520 ▪ CSE-512F-280 ▪ CSE-513L-420 ▪ CSE-811TQ-520 ▪ CSE-811TQ-280 ▪ CSE-811i-520 ▪ CSE-811i-280 ▪ CSE-813MTQ-520C ▪ CSE-813MTQ-280C ▪ CSE-813MT-420C ▪ CSE-813MT-410C
2U Chassis	<ul style="list-style-type: none"> ▪ CSE-523L-520 ▪ CSE-823TQ-550LP ▪ CSE-823T-550LP ▪ CSE-823i-550 ▪ CSE-823MTQ-R700LP ▪ CSE-825TQ-560LP ▪ CSE-825MTQ-R700LP
Mid Tower	<ul style="list-style-type: none"> ▪ CSE-733TQ-645 ▪ CSE-733TQ-465 ▪ CSE-733i-645 ▪ CSE-733i-465
Tower / 4U Rackmount	<ul style="list-style-type: none"> ▪ CSE-743T-645 ▪ CSE-743i-645
Important Chassis Notes	<ul style="list-style-type: none"> ▪ To ensure system stability, a 500W (minimum) ATX power supply [8-pin (+12V) and 24-pin are required]

Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> ▪ 2 (x8) PCI-e slots ▪ 1 (x4) PCI-e (using x8) slot
PCI	3x 32-bit PCI slots

System BIOS	
BIOS Type	8Mb Flash EEPROM w ith Phoenix ® BIOS
BIOS Features	<ul style="list-style-type: none"> ▪ Plug and Play (PnP) ▪ DMI 2.3 ▪ PCI 2.2 ▪ ACPI 1.0/2.0/3.0 ▪ USB Keyboard support ▪ Hardware BIOS Virus protection ▪ SMBIOS 2.5

Management	
Software	<ul style="list-style-type: none"> ▪ Optional IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 ▪ SuperDoctor® 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 ▪ Power-on mode for AC power recovery ▪ Internal/External modem remote ring-on

PC Health Monitoring	
Voltage	<ul style="list-style-type: none"> ▪ Monitors for CPU Cores, +1.8V, +3.3V, +5V, ±12V, +3.3V Stdbyp, +5 Stdbyp, VBAT, HT, Memory, Chipset ▪ CPU Core 6-Phase-sw itching voltage regulator with auto-sense from 0.8375V-1.60V
FAN	<ul style="list-style-type: none"> ▪ Total of six 4-pin fans ▪ 6x fans with tachometer monitoring ▪ Status monitor for speed control ▪ Status monitor for on/off control ▪ Support for 3-pins (w/o speed control) ▪ Low noise fan speed control ▪ Pulse Width Modulated (PWM) fan connectors

Temperature	
Temperature	<ul style="list-style-type: none"> ▪ Monitoring for CPU and chassis environment ▪ CPU thermal trip support ▪ Thermal Control for 6x Fan Connectors ▪ PSU ȦC temperature sensing logic ▪ Thermal Monitor 2 (TM2) support ▪ PECI

LED	
LED	<ul style="list-style-type: none"> ▪ CPU / System Overheat LED ▪ Suspend-state Indicator LED

Other Features	
Other Features	<ul style="list-style-type: none"> ▪ Chassis intrusion detection ▪ Chassis intrusion header ▪ Chipkill Support

Operating Environment / Compliance	
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	
OS Compatibility	<ul style="list-style-type: none"> ▪ 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
X7DCL-i	MBD-X7DCL-i-O	1	X7DCL-i Motherboard
Manual(s)	MNL-0957	1	Motherboard Manual for X7DCL-i
Retention	SKT-0159L	1	Retention Kit
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.

* PCB 1.1A supports up to 48GB of **single / dual** rank memory
 PCB 1.1 supports up to 32GB of **single** rank memory
 **This memory modules are not tested yet