

X7DCT-LF

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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 Registered DIMM
4. Intel® 82575 Dual-Port Ethernet Controller
5. 4x SATA (3 Gbps) Ports via ICH9R SB Controller
6. 1 (x8) PCIe (using x16 slot)
7. Integrated IPMI 2.0 with KVM and Dedicated LAN
8. Integrated Graphics

- DDR2 Xeon 1U-Tw in MainBoard Integrated IPMI2.0 with KVM and Dedicated LAN

Links & Resources

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

Specifications

Product SKUs

MBD-X7DCT-LF-O	▪ X7DCT-LF(Standard Retail Pack)
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MBD-X7DCT-LF-B	▪ X7DCT-LF(Bulk Pack)
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Physical Stats

Form Factor	▪ Proprietary
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Dimensions	▪ 16.4" x 6.5" (41.66cm x 16.51cm)
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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:
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- 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
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Operating System Software	<ul style="list-style-type: none"> ▪ Supports 64-bit Operating Systems ▪ Supports 32-bit Operating Systems
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System Memory

Memory Capacity	<ul style="list-style-type: none"> ▪ Six 240-pin DIMM sockets ▪ Supports up to 48 GB 667/533MHz DDR2 ECC Registered DIMM memory ▪ Dual channels memory bus
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Memory Type	<ul style="list-style-type: none"> ▪ 677/533MHzECC Register DDR2 SDRAM 72-bit, 240-pin gold-plated DIMMs
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DIMM Sizes	▪ 1GB, 2GB, 4GB, 8GB**
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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 and x8 Single Device Data Correction (SDDC)
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On-Board Devices

Chipset	<ul style="list-style-type: none"> ▪ Intel® 5100 (San Clemente) chipset ▪ Intel® ICH9R SB
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SATA	<ul style="list-style-type: none"> ▪ Intel ICH9R SB SATAII Controller ▪ RAID 0, 1, 5, 10 support (Windows only) ▪ RAID 0, 1, 10 support (Linux)
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IPMI	<ul style="list-style-type: none"> ▪ Support for Intelligent Platform Management Interface v.2.0 ▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ▪ Winbond® WPCM450 BMC
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Network Controllers	<ul style="list-style-type: none"> ▪ Intel® 82575 Dual-Port Gigabit Ethernet Controllers ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ▪ 1x Realtek RTL8201N PHY (dedicated IPMI) ▪ Intel® I/OAT support for fast, scalable, and reliable networking
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Graphics	▪ Matrox G200 8MB DDR2
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Super I/O	▪ Winbond W83627DHG chip
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Clock Generator	▪ ICS9LPR501 chip
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Input / Output

Serial ATA	<ul style="list-style-type: none"> ▪ Four Serial ATA ports ▪ Four SATA hard drives supported
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LAN	<ul style="list-style-type: none"> ▪ 2x RJ45 LAN ports ▪ 1x RJ45 Dedicated IPMI LAN port
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USB	<ul style="list-style-type: none"> ▪ 2 rear + 1 Type A connector + 2 headers (2 Ports) ▪ 5 total USB ports, 2.0 Compliant / 1.1 Compliant
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VGA	▪ 1x VGA Port
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Serial Port	▪ 1 Fast UART 16550 serial port
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Chassis (Optimized for X7DCT-LF)

1U Chassis	<ul style="list-style-type: none"> ▪ CSE-808T-980 ▪ CSE-809T-780
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Expansion Slots

PCI-Express	▪ 1 (x8) PCIe (using x16 slot)
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System BIOS

BIOS Type	<ul style="list-style-type: none"> ▪ 16Mb SPI Flash with Phoenix® BIOS ▪ Plug and Play (PnP) ▪ DMI 2.3 ▪ PCI 2.2 ▪ ACPI 1.0/2.0/3.0 ▪ USB Keyboard support ▪ Hardware BIOS Virus protection
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Management

Software	<ul style="list-style-type: none"> ▪ IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support ▪ SuperDoctor® III ▪ Watch Dog ▪ NMI
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Power Configurations	<ul style="list-style-type: none"> ▪ ACPI Power Management ▪ Main Switch Override Mechanism ▪ Power-on mode for AC power recovery
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PC Health Monitoring

Voltage	<ul style="list-style-type: none"> ▪ Monitors for CPU Cores, +1.5V, +3.3V, +5V, ±12V, +5 Standby, VBAT ▪ CPU Core 5-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V
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FAN	<ul style="list-style-type: none"> ▪ Total of three 4-pin PWM fans ▪ 3x fans with tachometer monitoring ▪ Status monitor for speed control ▪ Status monitor for on/off control ▪ Low noise fan speed control
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Temperature	<ul style="list-style-type: none"> ▪ Monitoring for CPU and chassis environment ▪ CPU thermal trip support ▪ Thermal Control for 3x Fan Connectors ▪ PSU I2C temperature sensing logic ▪ Thermal Monitor 2 (TM2) support ▪ PECI
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LED	<ul style="list-style-type: none"> ▪ CPU / System Overheat LED ▪ Suspend-state Indicator LED
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Other Features	▪ SDDC Support
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Operating Environment / Compliance

RoHS

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

Parts List

Parts List (Bulk Package)

	Part Number	Qty	Description
X7DCT-LF	MBD-X7DCT-LF-B	1	X7DCT-LF Motherboard
Manual(s)	MNL-0986	1	Motherboard Manual for X7DCT-LF
I/O Cables	CBL-0044L	2	2ft. Amphenol SATA Cable
Driver Disk	CDR-X7.1.33	1	Version 1.33 CD or later

**This memory modules are not tested yet

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