


X7DBR-8+

Products ▶ Motherboards ▶ **Archived (EOL)** ▶ [X7DBR-8+]

For OEMs Only - Minimum quantity required. Please contact your Supermicro Sales representative for additional details



16-DIMM Xeon Dual-Core Blackford SCSI / SATA ServerBoard

Key Features

- Quad & Dual Core Intel® 64-bit Xeon® Support, 667 / 1066 / 1333MHz FSB
- Intel® 5000P (Blackford) Chipset
- Up to 64GB DDR2 667 & 533 SDRAM Fully Buffered DIMM (FB-DIMM)
- Intel® (ESB2/Gilgal) 82563EB Dual-port Gigabit Ethernet Controller
- Adaptec AIC-7902 Dual Channel Ultra320 SCSI
- 6x SATA 3.0Gbps Ports via ESB2 SATA Controller
- Left Universal Slot:
1 64-bit 133MHz PCI-X OR
2 (x8) PCI-Express
- Right Slot:
1 (x8) PCI-Express Slot (for 2U Only)
- Zero-Channel RAID Support
- ATI ES1000 Graphics with 16MB video memory
- IPMI 2.0 (SIMSO) Socket

Links & Resources

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

Specifications

Product SKUs - Discontinued SKU (EOL). Please contact sales rep for alternative options.		
MBD-X7DBR-8+-B	X7DBR-8+ (Bulk Pack)	
Physical Stats		
Form Factor	Enhanced Extended ATX	
Dimensions	13.68" x 13" (34.7cm x 33cm)	
Processor/Cache		
CPU	<ul style="list-style-type: none"> Dual 771-pin LGA Sockets Supports up to two 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 5200/5100/5000 sequence (Wolfdale /Woodcrest/Dempsey processor) up to 3.40 GHz 	
	System Bus	1333 / 1066 / 667 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"> Sixteen 240-pin DIMM sockets Supports up to 64 GB 667 / 533MHz DDR2 ECC FB-DIMM memory Dual branch memory bus Memory must be populated in pairs Memory Mirroring supported 	
	Memory Type	667 / 533MHz FB-DIMM (Fully Buffered DIMM) ECC DDR2 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	512 MB, 1GB, 2GB, 4GB	
Memory Voltage	1.8V only 1.5V(AMB)	
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) 	
On-Board Devices		
Chipset	<ul style="list-style-type: none"> Intel® 5000P (Blackford) chipset MCH + PXH-V + ESB2 	
SCSI	<ul style="list-style-type: none"> Adaptec AIC-7902 Controller Dual-Channel Ultra320 SCSI (Host RAID only supports 4 drives) Host RAID 0, 1, & 10 support 	
RAID	<ul style="list-style-type: none"> Support for Zero-Channel RAID with Supermicro All-In-One-ZCR Card: AOC-SOZCR1 Optional (Card not included) RAID 0, 1, 5, 10 	
SATA	<ul style="list-style-type: none"> Intel ESB2 SATA 3.0Gbps Controller RAID 0, 1, 5, 10 support (Windows Only) RAID 0, 1, 10 support (Linux) 	
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v2.0 200-pin IPMI SO-DIMM Socket (SIMSO) (Optional: AOC-SIMSO+) 	
Network Controllers	<ul style="list-style-type: none"> Intel® (ESB2/Gilgal) 82563EB Dual-Port Gigabit Ethernet Controller Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output Intel® I/OAT support for fast, scalable, and reliable networking 	
Graphics	ATI ES1000 controller with 16 MB of video memory	
Super I/O	Winbond 83627HG 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(Compact Flash) Card Compact Flash (40-pin connector, IDE 1, single channel) slot 	
Chassis (Optimized for X7DBR-8+)		
1U Chassis	<ul style="list-style-type: none"> CSE-815S-700V CSE-815S-560 	
Important Chassis Notes	To ensure system stability, a 560W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required]	
Expansion Slots (For 1U Systems)		
Left Universal Slot	<ul style="list-style-type: none"> 1 64-bit 133MHz PCI-X OR 1 (x8) PCI-e Slot 	
Expansion Slots (For 2U Systems)		
Left Universal Slot	<ul style="list-style-type: none"> 1 64-bit 133MHz PCI-X OR 2 (x8) PCI-e Slots OR 3 64-bit 133MHz PCI-X 	
Right Slot	1 (x8) PCI-e Slot (For 2U Only)	
System BIOS		
BIOS Type	<ul style="list-style-type: none"> 8Mb Flash EEPROM with Phoenix® BIOS Plug and Play (PnP) SMBIOS 2.3 DMI 2.1 PCI 2.2 PCI-X 1.0 ACPI 1.0 USB Keyboard support Hardware BIOS Virus protection 	
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"> 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, +3.3V, +5V, ±12V, +1.2V, 1.5V, +5V Standby, VBAT 5-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V 	
FAN	<ul style="list-style-type: none"> Total of five 3-pin fan headers supporting up to 5 fans 5x fans with tachometer status monitoring Status monitor for speed control Low noise fan speed control 	
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 5x fan connectors PSU i°C temperature sensing logic Thermal Monitor 2 (TM2) support 	
LED	CPU / System Overheat LED	
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header SDDC Support 	
Operating Environment		
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	

	<ul style="list-style-type: none"> Supports UDMA Mode 5, PIO Mode 4, and ATA/100
Floppy	<ul style="list-style-type: none"> 1 Floppy controller, 1.44 MB, 2.88 MB
LAN	<ul style="list-style-type: none"> 2x RJ45 LAN ports
USB	<ul style="list-style-type: none"> 2x USB rear ports 2x USB internal headers Total 6 USB 2.0 Compliant / 1.1 Compliant
VGA	<ul style="list-style-type: none"> 1x VGA Port
Keyboard / Mouse	<ul style="list-style-type: none"> PS/2 keyboard and mouse ports
Serial Port / Header	<ul style="list-style-type: none"> 1 Fast UART 16550 serial port 1 Fast UART 16550 serial header



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

Parts List

Standard Bulk Package			
	Part Number	Qty	Description
X7DBR-8+	MBD-X7DBR-8+-B	1	X7DBR-8+ Motherboard
Manual(s)	MNL-0863	1	Motherboard Manual for X7DBR-8+
I/O Cables	CBL-0022L	1	ATX Floppy Cable
	CBL-0036L-03	1	ATA 66/100 IDE LP Cable
Driver Disk	CDR-X7 1.01	1	Version 1.01 CD or later

Note: Items in a Standard Retail Package may differ from items in a Standard Bulk Package.

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