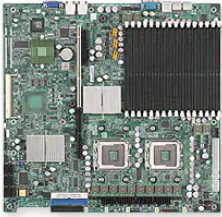# X7DBR-i+

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

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

Key Features

1. Quad & Dual Core Intel® 64-bit Xeon® Support, 667 / 1066 / 1333MHz FSB
2. Intel® 5000P (Blackford) Chipset
3. Up to 64GB DDR2 667 & 533 SDRAM Fully Buffered DIMM (FB-DIMM)
4. Intel® (ESB2/Gilgal) 82563EB Dual-port Gigabit Ethernet Controller
5. 6x SATA 3.0Gbps Ports via ESB2 SATA Controller
6. Left Universal Slot:
   1 64-bit 133MHz PCI-X OR
   2 (x8) PCI-Express
7. Right Slot:
   1 (x8) PCI-Express Slot (For 2U Only)
8. ATI ES1000 Graphics with 16MB video memory
9. IPMI 2.0 (SIMSO) Socket

■ 16-DIMM Xeon Dual-Core (Blackford) ServerBoard

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-i+-B	■ X7DBR-i+ (Bulk Pack)

Physical Stats

Form Factor	■ Enhanced Extended ATX
Dimensions	■ 13.68" x 13" (34.7cm x 33cm)

Processor/Cache

CPU	■ Dual 771-pin LGA Sockets
	■ Supports up to two **Intel® 64-bit Xeon®** processor(s) of the same type below:
	  ■ **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	■ Supports 64-bit Operating Systems ■ Supports 32-bit Operating Systems

System Memory

Memory Capacity	■ 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	■ 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	■ Intel® 5000P (Blackford) chipset ■ MCH + PXH-V + ESB2
SATA	■ Intel ESB2 SATA 3.0Gbps Controller ■ RAID 0, 1, 5, 10 support (Windows Only) ■ RAID 0, 1, 10 support (Linux)
IPMI	■ Support for Intelligent Platform Management Interface v.2.0 ■ 200-pin IPMI SO-DIMM socket (SIMSO) ■ (Optional: AOC-SIMSO(+))
Network Controllers	■ 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, scaleable, and reliable networking
Graphics	■ ATI ES1000 controller with 16 MB of video memory
Super I/O	■ Winbond 83627HG chip

Input / Output

Serial ATA	■ Six Serial ATA ports ■ Six SATA hard drives supported
IDE	■ 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 ■ Supports UDMA Mode 5, PIO Mode 4, and ATA/100
Floppy	■ 1 Floppy controller; 1.44 MB, 2.88 MB
LAN	■ 2x RJ45 LAN ports
USB	■ 2x USB rear ports ■ 2x USB internal headers ■ Total 6 USB 2.0 Compliant / 1.1 Compliant
VGA	■ 1x VGA Port
Keyboard / Mouse	■ PS/2 keyboard and mouse ports
Serial Port /	■ 1 Fast UART 16550 serial port

Chassis (Optimized for X7DBR-i+)

1U Chassis	■ CSE-815TQ-700V ■ CSE-815TQ-560V
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	■ 1 64-bit 133MHz PCI-X OR ■ 1 (x8) PCI-e Slot

Expansion Slots (For 2U Systems)

Left Universal Slot	■ 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)

System BIOS

BIOS Type	■ 8Mb Flash EEPROM with Phoenix® BIOS
BIOS Features	■ 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	■ Optional IPMI (Intelligent Platform Management Interface) 2.0 ■ SuperDoctor® III ■ Watch Dog ■ NMI
Power Configurations	■ 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	■ 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	■ 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	■ Monitoring for CPU and chassis environment ■ CPU thermal trip support ■ Thermal Control for 5x fan connectors ■ PSU I²C temperature sensing logic ■ Thermal Monitor 2 (TM2) support
LED	■ CPU / System Overheat LED
Other Features	■ 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

Header	■ 1 Fast UART 16550 serial header	
Parallel Port	■ 1 ECP / EEP parallel port	

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

Parts List

Parts List

	Standard Bulk Package	Qty	Description
X7DBR-i+	MBD-X7DBR-i+-B	1	X7DBR-i+ Motherboard
Manual(s)	MNL-0863	1	Motherboard Manual for X7DBR-i+
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.