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# X8DTU-6F+

### Key Features

1. Intel® Xeon® processor 5600/5500 series, with QPI up to 6.4 GT/s
2. Intel® 5520 (Tylersburg) Chipset
3. Up to 288GB DDR3 1333/ 1066/ 800MHz ECC Registered DIMM / 48GB Unbuffered DIMM
4. Intel® 82576 Dual-Port Gigabit Ethernet Controller
5. Broadcom 2108 8-Port 6Gb/s SAS Hardware RAID Controller; RAID 0, 1, 5, 6, 10, 50, 60
6. 6x SATA2 (3 Gbps) Ports via ICH10R Controller
7. Left Side
   1 (x16) PCI-E 2.0
   by riser card
   Right Side
   1 (x4) PCI-E 2.0
   by riser card (in x16 slot)
   For 2U configuration, Please go to
   UIO Riser Cards page
8. Integrated Matrox G200eW Graphics
9. Integrated IPMI 2.0 with Dedicated LAN

18 DIMM 6Gb/s SAS (SAS 2.0) w/ Hardware RAID
UIO ServerBoard

### Links & Resources

▶ Tested Memory List

▶ Tested HDD / SSD List

▶ Motherboard Manual

▶ Update Your BIOS

▶ IPMI Firmware

▶ Download the Latest Drivers and Utilities

▶ Download Driver CD

## Specifications

**Product SKUs - Discontinued SKU (EOL). Please contact sales-rep for alternative options.**

| MBD-X8DTU-6F+-B | ▪ X8DTU-6F+ (Bulk Pack) |
|---|---|

**Physical Stats**

| Form Factor | ▪ Proprietary |
|---|---|
| Dimensions | ▪ 12.8" x 16.5" (32.5cm x 41.9cm) |

**Processor/Cache**

| CPU | ▪ Dual 1366-pin LGA Sockets<br>▪ Supports up to two Intel® 64-bit Xeon® processor(s) of the same type below:<br>  ▪ Intel® Xeon®Processor 5600 Series (Westmere)<br>  ▪ Intel® Xeon®Processor 5500 Series (Nehalem-EP) |
|---|---|
| QPI | ▪ up to 6.4 GT/s |

**System Memory**

| Memory Capacity | ▪ 18x 240-pin DIMM slots<br>▪ Supports up to 288GB 1333 / 1066 / 800MHz DDR3 ECC Registered memory<br>▪ Supports up to 48GB 1333 / 1066 / 800MHz DDR3 ECC / Non ECC Unbuffered memory<br>▪ Memory Mirroring supported |
|---|---|
| Memory Type | ▪ 1333 / 1066 / 800MHz ECC Registered / ECC or Non ECC Unbuffered DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs |
| DIMM Sizes | ▪ 1GB, 2GB, 4GB , 8GB , 16GB |
| Memory Voltage | ▪ 1.5 V / 1.35V |

**Chassis ( Optimized for X8DTU-6F+ )**

| Important Chassis Notes | ▪ To support the new generation Intel® Xeon® processor-based motherboards, a Revision K chassis is recommended for most models. Please talk to your sales representative or follow the link for details. |
|---|---|

**Expansion Slots**

| PCI-Express / PCI-X / UIO | **Left Side**<br>▪ 1 (x16) PCI-E 2.0 by riser card<br>**Right Side**<br>▪ 1 (x4) PCI-E 2.0 by riser card<br><br>▪ For 2U configuration, Please go to UIO Riser Cards page |
|---|---|

**System BIOS**

| BIOS Type | ▪ 32Mb SPI Flash EEPROM with AMI® BIOS |
|---|---|
| BIOS Features | ▪ Plug and Play (PnP)<br>▪ PCI 2.2<br>▪ ACPI up to 3.0<br>▪ USB Keyboard support |

**Management**

| Software | ▪ IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support<br>▪ SuperDoctor® III |
|---|---|
| Power Configurations | ▪ ACPI / ACPM Power Management |

**PC Health Monitoring**

| Voltage | ▪ Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages.<br>▪ 6-Phase-switching voltage regulator |
|---|---|

| | |
|---|---|
| **Error Detection** | ■ Corrects single-bit errors<br>■ Detects double-bit errors (using ECC memory)<br>■ Supports Intel® x4 and x8 Single Device Data Correction (SDDC) |
| **Note:** | This board does not support LRDIMM memory. |

### On-Board Devices

| | |
|---|---|
| **Chipset** | ■ Intel® 5520 (Tylersburg) chipset<br>■ ICH10R + IOH-36D |
| **SAS** | ■ Broadcom 2108 SAS (6Gb/s) w/ Hardware RAID support; supports up to 16 devices<br>■ RAID 0, 1, 5, 6, 10, 50, 60 support<br>■ BBU (battery backup) extension kit (optional)<br>■ Onboard 512MB cache |
| **SATA** | ■ Intel ICH10R SATA 3.0Gbps Controller<br>■ RAID 0, 1, 5, 10 support (Windows)<br>■ RAID 0, 1, 10 support (Linux) |
| **IPMI** | ■ Support for Intelligent Platform Management Interface v.2.0<br>■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support<br>■ Winbond® WPCM450 BMC |
| **Network Controllers** | ■ Intel® 82576 Dual-Port Gigabit Ethernet Controller<br>■ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output<br>■ Intel® I/OAT 3 support for fast, scaleable, and reliable networking<br>■ VMDq support for better performance of virtualization<br>■ 1x Realtek RTL8201N PHY (dedicated IPMI) |
| **Graphics** | ■ Matrox G200eW |
| **Super I/O** | ■ Winbond 83827HF chip |

### Input / Output

| | |
|---|---|
| **SAS** | ■ 8x 6Gb/s SAS / SATA ports with 2 I-PASS connectors |
| **Serial ATA** | ■ Six Serial ATA ports<br>■ Six SATA hard drives supported |
| **LAN** | ■ 2x RJ45 LAN ports<br>■ 1x RJ45 Dedicated IPMI LAN port |
| **USB** | ■ 2x USB rear ports<br>■ 1x USB on-board<br>■ 3x USB internal headers<br>■ Total 6 USB 2.0 Compliant |
| **VGA** | ■ 1x VGA Port |
| **Keyboard / Mouse** | ■ PS/2 keyboard and mouse ports |
| **Serial Port / Header** | ■ 1 Fast UART 16550 serial port<br>■ 1 Fast UART 16550 serial header |

| | |
|---|---|
| **FAN** | ■ Total of eight fan headers supporting up to 8 fans<br>■ Eight 4-pin fan headers<br>■ 8x fans with tachometer status monitoring<br>■ Support 3-pin fans (w/o speed control)<br>■ Low noise fan speed control (4-pin fan only) |
| **Temperature** | ■ Monitoring for CPU and chassis environment<br>■ Thermal Control for 8x fan connectors<br>■ PECI |
| **Other Features** | ■ Chassis intrusion detection<br>■ Chassis intrusion header |

### Operating Environment

| | |
|---|---|
| **Environmental Spec.** | ■ Operating Temperature: 10° to 35° C (50° to 95°F)<br>■ Non-operating Temperature: -40° to 70° C (-40° to 158° F)<br>■ Operating Relative Humidity: 8% to 90% (non-condensing)<br>■ Non-operating Relative Humidity: 5 to 95% (non-condensing) |

### OS Compatibility

• 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 (Bulk Pack)**

| | Part Number | Qty | Description |
|---|---|---|---|
| **X8DTU-6F+** | MBD-X8DTU-6F+ -O | 1 | X8DTU-6F+ Motherboard |
| **I/O Shield** | MCP-260-00038-0N | 1 | 1U/2U UIO I/O SHIELD FOR X8DTU-6T+ |

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