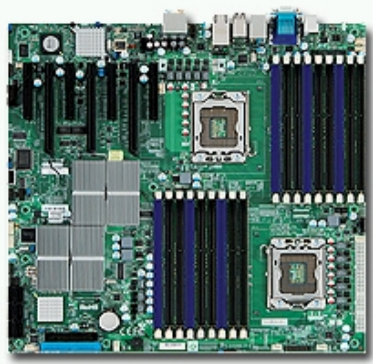


# X8DAH+-F

Products Motherboards Xeon Boards [ X8DAH+F ]



Dual IOH -36D, 7 PCI -E Slots, 5520 (Tylersburg) ServerBoard - 288GB

### Key Features

- Intel® Xeon® processor 5600/5500 series, with QPI up to 6.4 GT/s
- Dual Intel® 5520 (Tylersburg) Chipsets
- Up to 288GB DDR3 1333/ 1066/ 800MHz ECC Registered DIMM / 48GB Unbuffered DIMM
- Intel® 82576 Dualport Gigabit Ethernet Controller
- 6x SATA2 (3 Gbps) Ports via ICH10R Controller
- 2 (x16) PCIe 2.0, 4 (x8) PCIe 2.0 (1 in x 16 slot), 1(x4) PCIe 2.0 (in x8 slot)
- Realtek ALC888 7.1 HD Audio
- Integrated Matrox G200eW Graphics
- 2x IEEE 1394a Ports
- Integrated IPMI 2.0 with Dedicated LAI

### Links & Resources

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

## Specifications

Product SKUs	
<b>MBD-X8DAH+-F-O</b>	X8DAH+F (Standard Retail Pack)
<b>MBD-X8DAH+-F-B</b>	X8DAH+F (Bulk Pack)
Physical Stats	
<b>Form Factor</b>	Enhanced Extended ATX
<b>Dimensions</b>	13.68" x 13" (34.7cm x 33cm)
Processor/Cache	
<b>CPU</b>	<ul style="list-style-type: none"> <li>Dual 1366-pin LGA Sockets</li> <li>Supports up to two <b>Intel® 64-bit Xeon®</b> processor(s) of the same type below:                             <ul style="list-style-type: none"> <li><b>Intel® Xeon® Processor 5600 Series (Westmere)</b></li> <li><b>Intel® Xeon® Processor 5500 Series (Nehalem -EP)</b></li> </ul> </li> </ul>
<b>QPI</b>	up to 6.4 GT/s
System Memory	
<b>Memory Capacity</b>	<ul style="list-style-type: none"> <li>18x 240-pin DIMM sockets</li> <li>Supports up to 288GB 1333 / 1066 / 800MHz DDR3 ECC Registered memory</li> <li>Supports up to 48GB 1333 / 1066 / 800MHz DDR3 ECC / Non ECC Unbuffered memory</li> <li>Memory Mirroring supported</li> </ul>
<b>Memory Type</b>	1333 / 1066 / 800MHz ECC Registered / ECC or Non ECC Unbuffered DDR3 SDRAM 72bit, 240-pin gold-plated DIMMs
<b>DIMM Sizes</b>	1GB, 2GB, 4GB , 8GB , 16GB
<b>Memory Voltage</b>	1.5 V / 1.35V
<b>Error Detection</b>	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> <li>Supports Intel® x4 and x8 Single Device Data Correction (SDCC)</li> </ul>
<b>Note:</b>	This board does not support LRDIMM memory. Please refer to <a href="#">HERE</a> for list of motherboards with LRDIMM support.
On-Board Devices	
<b>Chipset</b>	Intel® 5520 (Tylersburg) chipset ICH10R +2x IOH86D
<b>SATA</b>	<ul style="list-style-type: none"> <li>Intel ICH10R SATA 3.0Gbps Controller</li> <li>RAID 0, 1, 5, 10 support (Windows)</li> <li>RAID 0, 1, 10 support (Linux)</li> </ul>
<b>IPMI</b>	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>Winbond® WPCM450 BMC</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>Intel® 82576 DualPort Gigabit Ethernet Controller</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li><b>Intel® I/OAT 3</b> support for fast, scalable, and reliable networking</li> <li><b>VMDq</b> support for better performance of virtualization</li> <li>1x Realtek RTL8201N PHY (dedicated IPMI)</li> </ul>
<b>Audio</b>	Realtek ALC888 7.1 HD audio
<b>Graphics</b>	Matrox G200eW
<b>Super I/O</b>	Winbond 83827HF chip
Input / Output	
<b>Serial ATA</b>	<ul style="list-style-type: none"> <li>Six Serial ATA ports</li> <li>Six SATA hard drives supported</li> </ul>
<b>IDE</b>	<ul style="list-style-type: none"> <li>Single EIDE channel supports up to two UDMA IDE devices (IDEM, IDES) including CF(Compact Flash) Card</li> <li>Supports UDMA Mode 5, PIO Mode 4, and ATA/100</li> </ul>
<b>Floppy</b>	1 Floppy controller; 1.44 MB
<b>LAN</b>	<ul style="list-style-type: none"> <li>2x RJ45 LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>6x USB rear ports</li> <li>1x USB on-board</li> <li>2x USB internal headers (3 ports)</li> <li>Total 10 USB 2.0 Compliant</li> </ul>
<b>Audio</b>	Realtek ALC888 7.1 HD audio
<b>VGA</b>	1x VGA Port
<b>Keyboard / Mouse</b>	PS/2 keyboard and mouse ports
<b>Serial Port / Header</b>	<ul style="list-style-type: none"> <li>1 Fast UART 16550 serial port</li> <li>1 Fast UART 16550 serial header (Option)</li> </ul>
<b>IEEE 1394a</b>	2x IEEE 1394a ports (1x header)

Chassis ( Optimized for X8DAH+ -F )	
<b>2U Chassis</b>	<ul style="list-style-type: none"> <li><a href="#">CSE213A-R900LPB</a></li> <li><a href="#">CSE216A-R900LPB</a></li> <li><a href="#">CSE216E1-R900LPB</a></li> <li><a href="#">CSE216E2-R900LPB</a></li> <li><a href="#">CSE823MTQR700LPB</a></li> <li><a href="#">CSE825MTQR700LPB</a></li> <li><a href="#">CSE825TQ-560LPB</a></li> <li><a href="#">CSE825TQ-R700LPB</a></li> <li><a href="#">CSE825TQ-R720LPB</a></li> <li><a href="#">CSE826A-R1200LPB</a></li> <li><a href="#">CSE826E1-R800LPB</a></li> <li><a href="#">CSE826E16-R1200LPB</a></li> <li><a href="#">CSE826E2-R800LPB</a></li> <li><a href="#">CSE826E26-R1200LPB</a></li> <li><a href="#">CSE826TQ-R800LPB</a></li> </ul>
<b>3U Chassis</b>	<ul style="list-style-type: none"> <li><a href="#">CSE835TQ-R800B</a></li> <li><a href="#">CSE835TQ-R920B</a></li> <li><a href="#">CSE836A-R1200B</a></li> <li><a href="#">CSE836E1-R800B</a></li> <li><a href="#">CSE836E2-R800B</a></li> <li><a href="#">CSE836TQ-R800B</a></li> <li><a href="#">CSE936A-R900B</a></li> <li><a href="#">CSE936E1-R900</a></li> <li><a href="#">CSE936E16-R1200B</a></li> <li><a href="#">CSE936E26-R1200B</a></li> </ul>
<b>Tower / 4U Rackmount</b>	<ul style="list-style-type: none"> <li><a href="#">CSE745TQ-800B</a></li> <li><a href="#">CSE745TQ-920B</a></li> <li><a href="#">CSE745TQ-R800B</a></li> <li><a href="#">CSE747TG-R1400B-SQ</a></li> <li><a href="#">CSE846E1-R900B</a></li> <li><a href="#">CSE846E2-R900</a></li> <li><a href="#">CSE846TQ-R900B</a></li> </ul>
<b>Important Chassis Notes</b>	To support the new generation Intel® Xeon® processor-based motherboards, a <a href="#">Revision K</a> chassis is recommended for most models. Please talk to your sales representative or follow the link for details.
Expansion Slots	
<b>PCI-Express</b>	<ul style="list-style-type: none"> <li>2 (x16) PCIe 2.0 slots</li> <li>4 (x8) PCIe 2.0 slots (1 in x16 slot)</li> <li>1 (x4) PCIe 2.0 slot</li> </ul>
System BIOS	
<b>BIOS Type</b>	32Mb SPI Flash EEPROM with AMI BIOS
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>PCI 2.2</li> <li>ACPI up to 3.0</li> <li>USB Keyboard support</li> </ul>
Management	
<b>Software</b>	<ul style="list-style-type: none"> <li>IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support</li> <li><a href="#">SuperDoctor® III</a></li> </ul>
<b>Power Configurations</b>	ACPI / ACPM Power Management
PC Health Monitoring	
<b>CPU</b>	<ul style="list-style-type: none"> <li>Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages.</li> <li>6-Phase-switching voltage regulator</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>Total of eight fan headers supporting up to 8 fans</li> <li>Eight 4-pin fan headers</li> <li>8x fans with tachometer status monitoring</li> <li>Support 3-pin fans (w/o speed control)</li> <li>Low noise fan speed control (4 -pin fan only)</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>Thermal Control for 8x fan connectors</li> <li>PECI</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>Chassis intrusion detection</li> <li>Chassis intrusion header</li> </ul>
Operating Environment / Compliance	
<b>RoHS</b>	<ul style="list-style-type: none"> <li><a href="#">RoHS Compliant 6/6, Pb Free</a></li> </ul>
<b>Environmental Spec.</b>	<ul style="list-style-type: none"> <li>Operating Temperature: 10° to 35° C (50° to 95°F)</li> <li>Non-operating Temperature: -40° to 70° C (-40° to 158° F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5 to 95% (non-condensing)</li> </ul>
OS Compatibility	
	<ul style="list-style-type: none"> <li>Please see our <a href="#">OS Compatibility Chart</a>.</li> </ul>

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

## Parts List

Parts List (Retail Pack)			
	Part Number	Qty	Description
X8DAH+F	MBD-X8DAH+-F-O	1	X8DAH+F Motherboard
I/O Cable 1	CBL-0044L	6	57.5CM SATA FLAT SS PBF
I/O Cable 2	CBL-022L	1	ATX FLOPPY CABLE 3 HEADERS PB FREE
I/O Cable 3	CBL-036L-03	1	18" ATA 133/100/66 3-DROP TPE CABLE, PBF
Driver Disk	CDR-X8	1	DRIVER CD FOR X8 MOTHERBOARD
I/O Shield	MCP260-00025-0N	1	STANDARD I/O SHIELD FOR X8DAH+ MB
Manual	MNL-1060	1	X8DAH+/X8DAH+F/X8DAH+LR/X8DAH+-F-LR USER'S MANUAL

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