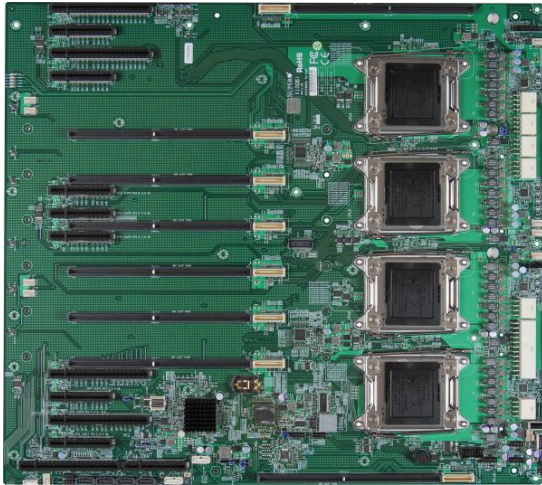


# X10QBi

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## MP Solutions

### Key Features

1. Quad socket R1 (LGA 2011) supports Intel® Xeon® processor E7-8800 v4/v3, E7-4800 v4/v3 family (up to 24-Core)
2. Intel® C602J chipset
3. 4 PCI-E 3.0 16 (slot 2, 4, 9, 11)  
7 PCI-E 3.0 8 (slot 1, 3, 5, 6, 7, 8, 10)
4. 2 10GBase-T ports, IPMI LAN port,  
and VGA port with AOM-X10QBi-A
5. 2 SATA3 (6Gbps) ports 4 SATA2 (3Gbps) ports
6. 6 USB 2.0 ports (4 rear, 2 Type A)

## Links & Resources

- [Tested Memory List](#)
- [Tested HDD / SSD List](#)
- [Motherboard Manual](#)
- [Update Your BIOS](#)
- [BMC Firmware](#)
- [Download the Latest Drivers and Utilities](#)
- [Download Driver CD](#)
- [Heat Sink Compatibility](#)
- [OS Compatibility](#)
- [Optimization](#)

# Specifications

## Product SKUs

<b>MBD-X10QBi</b>	■ X10QBi
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## Physical Stats

<b>Form Factor</b>	■ Proprietary
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<b>Dimensions</b>	■ 19" x 17" (48.26cm x 43.18cm)
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## Processor/Cache

<b>CPU</b>	<ul style="list-style-type: none"> <li>■ Intel® Xeon® processor E7-4800 series, Intel® Xeon® processor E7-4800 v2, Intel® Xeon® processor E7-4800 v3, Intel® Xeon® processor E7-4800 v4, Intel® Xeon® processor E7-8800 v2, Intel® Xeon® processor E7-8800 v3, Intel® Xeon® processor E7-8800 v4.</li> <li>■ Quad Socket R1 (LGA 2011) supported, CPU TDP support 165W TDP</li> </ul>
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<b>Cores / Cache</b>	■ Up to 24 cores / Up to 60 MB cache
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## System Memory

<b>Memory Capacity</b>	<ul style="list-style-type: none"> <li>■ Up to 12TB 3DS ECC RDIMM, DDR4-1866MHz; Up to 12TB 3DS ECC LRDIMM, DDR4-1866MHz/1600/1333/1066/800MHz ECC DDR4 , 96 DIMM slots, up to 12 TB total memory capacity</li> </ul>
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<b>Memory Type</b>	■ 1866/1600/1333/1066/800MHz ECC DDR4 SDRAM 72-bit, 288-pin gold-plated DIMMs
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<b>DIMM Sizes</b>	<ul style="list-style-type: none"> <li>■ RDIMM: 4GB, 8GB, 16GB, 32GB</li> <li>■ LRDIMM: 32GB, 64GB</li> <li>■ 3DS LRDIMM: 128GB</li> </ul>
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<b>Memory Voltage</b>	■ 1.2V
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<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> </ul>
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## On-Board Devices

<b>Chipset</b>	■ Intel® C602J
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<b>SATA</b>	<ul style="list-style-type: none"> <li>■ 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10</li> <li>■ 2 SATA2 (3 Gbps) ports; 4 RAID 0,1,5,10</li> </ul>
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<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> </ul>
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<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>■ Intel® X540 Dual port 10GBase-T Virtual Machine Device Queues reduce I/O overhead</li> <li>■ Supports 10GBase-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>■ 1 Realtek RTL8291F PHY (dedicated IPMI)</li> </ul>
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## Expansion Slots

<b>PCI-E</b>	<ul style="list-style-type: none"> <li>■ 4x PCI-E 3.0 x16 (slot 2, 4, 9, 11)</li> <li>■ 7x PCI-E 3.0 x8 (slot 1, 3, 5, 6, 7, 8, 10)</li> </ul>
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## System BIOS

<b>BIOS Type</b>	■ AMI UEFI
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## Management

<b>Software</b>	■ IPMI2.0, SuperDoctor® III
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## PC Health Monitoring

<b>Voltage</b>	<ul style="list-style-type: none"> <li>■ +1.8V, +12V, +3.3V, +5V, +5V standby, 5 Phase-switching voltage regulator, Chipset Voltage, HT, Memory, VBAT</li> </ul>
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<b>FAN</b>	<ul style="list-style-type: none"> <li>■ 7x 4-pin fan headers (up to 7 fans), 4x 9cm + 3x 8cm fans w/ speed control, Low noise fan speed control, Pulse Width Modulated (PWM) fan connectors, Status monitoring for on/off control</li> </ul>
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<b>Temperature</b>	■ Monitoring for CPU and chassis environment
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<b>LED</b>	■ CPU / System Overheat LED
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<b>Other Features</b>	<ul style="list-style-type: none"> <li>■ Chassis intrusion detection, Chassis intrusion header, SDDC</li> </ul>
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<b>Graphics</b>	■ Aspeed AST2400 BMC
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Input / Output

<b>SATA</b>	■ 2 SATA3 (6Gbps) port ■ 4 SATA2 (3Gbps) ports
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<b>LAN</b>	■ 2 RJ45 10GBase-T ports ■ 1 RJ45 Dedicated IPMI LAN port
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<b>USB</b>	■ 6 USB 2.0 ports (4 rear 2 Type A)
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<b>Video Output</b>	■ 2 VGA (1 rear bezel, 1 front panel) ports
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<b>Serial Port / Header</b>	■ 2 COM Ports (1 rear, 1 header) 2 fast UART 16550 serial
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## Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X10QBi	1	X10QBi Motherboard

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X10QBi	1	X10QBi Motherboard
For server SKUs only:	X10QBi	1	X10QBi base board for SYS-4048B-TR4FT / SYS-8048B-TR4FT
SYS-4048B-TR4FT	X10QBi-MEM2	8	Memory board for SYS-4048B-TR4FT / SYS-8048B-TR4FT
SYS-8048B-TR4FT	AOM-X10QBi-A	1	Add-on Module for SYS-4048B-TR4FT / SYS-8048B-TR4FT
For server SKUs only:	X10QBi	1	X10QBi base board for SYS-4048B-TRFT / SYS-8048B-TRFT
SYS-4048B-TRFT	X10QBi-MEM1	8	Memory board for SYS-4048B-TRFT / SYS-8048B-TRFT
SYS-8048B-TRFT	AOM-X10QBi-A	1	Add-on Module for SYS-4048B-TRFT / SYS-8048B-TRFT

### Server (Optimized for X10QBi)

Server Name
<u>SYS-4048B-TRFT</u>
<u>SYS-8048B-TRFT</u>
<u>SYS-4048B-TR4FT</u>
<u>SYS-8048B-TR4FT</u>