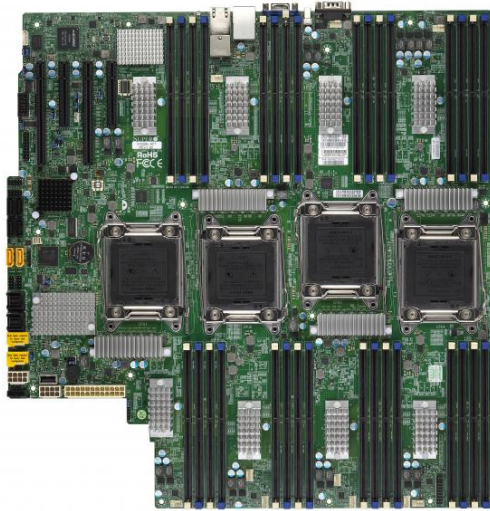


X10QBL-4CT



Links & Resources

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

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. Up to 4TB DDR4 (128GB 3SDS LRDIMM); 32 DIMM slots
4. 2 PCI-E 3.0 x16 (slot 1, 3)
2 PCI-E 3.0 8 (slot 2, 4)
5. 2 10GBase-T ports, IPMI LAN port, VGA port, TPM header, 2 COM
6. 2 SATA3 (6Gbps) ports 4 SATA2 (3Gbps) ports
7. 8 SAS3 (12Gbps) ports via Broadcom® 3008
8. 6 USB 2.0 ports
(3 rear, 2 via headers, 1 Type A)

Specifications

Product SKUs

MBD-X10QBL-4CT	<ul style="list-style-type: none"> ■ X10QBL-4CT
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Physical Stats

Form Factor	<ul style="list-style-type: none"> ■ Proprietary
Dimensions	<ul style="list-style-type: none"> ■ 16.79" x 16.4" (42.65cm x 41.66cm)

Processor/Cache

CPU	<ul style="list-style-type: none"> ■ Intel® Xeon® processor E7-4800 v3, Intel® Xeon® processor E7-4800 v4, Intel® Xeon® processor E7-8800 v3, Intel® Xeon® processor E7-8800 v4. ■ Quad Socket R (LGA 2011) supported, CPU TDP support 165W TDP, 1 QPI up to 9.6GT/s
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Cores / Cache	<ul style="list-style-type: none"> ■ Up to 24 cores / Up to 60 MB cache
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System Memory

Memory Capacity	<ul style="list-style-type: none"> ■ Up to 4TB 3DS ECC RDIMM, DDR4-1866MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-1866MHz, in 32 DIMM slots 2TB DDR4 ECC LRDIMM
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Memory Type	<ul style="list-style-type: none"> ■ 1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin gold-plated DIMMs
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DIMM Sizes	<ul style="list-style-type: none"> ■ RDIMM: 4GB, 8GB, 16GB, 32GB, 64GB ■ LRDIMM: 128GB
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Memory Voltage	<ul style="list-style-type: none"> ■ 1.2V
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Error Detection	<ul style="list-style-type: none"> ■ Corrects single-bit errors
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On-Board Devices

Chipset	<ul style="list-style-type: none"> ■ Intel® C602J
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SATA	<ul style="list-style-type: none"> ■ 1 SATA2 (3 Gbps) ports; RAID 0,1,5,10 ■ 1 SATA3 (6 Gbps) ports; RAID 0,1JBOD support (IT Mode)
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SAS	<ul style="list-style-type: none"> ■ SAS3 (12Gbps) via LSI® 3008 controller SW RAID 0, 1, 10 support
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IPMI	<ul style="list-style-type: none"> ■ Support for Intelligent Platform Management Interface v.2.0 ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ■ ASPEED AST2400 BMC
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Expansion Slots

PCI-E	<ul style="list-style-type: none"> ■ 2 PCI-E 3.0 x16, ■ 2 PCI-E 3.0 x8
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System BIOS

BIOS Type	<ul style="list-style-type: none"> ■ 128Mb SPI Flash EEPROM with AMI BIOS
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BIOS Features	<ul style="list-style-type: none"> ■ Plug and Play (PnP) ■ APM 1.2 ■ PCI 2.3 ■ ACPI 1.0 / 2.0 / 3.0 / 4.0 ■ USB Keyboard support ■ SMBIOS 2.7.1 ■ UEFI 2.3.1
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Management

Software	<ul style="list-style-type: none"> ■ IPMI2.0, KVM with dedicated LAN, SPM, SUM, SuperDoctor® 5, Watchdog
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Power Configurations	<ul style="list-style-type: none"> ■ ACPI Power Management ■ Main Switch Override Mechanism ■ CPU Fan auto-off in sleep mode ■ Power-on mode for AC power recovery
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PC Health Monitoring

Voltage	<ul style="list-style-type: none"> ■ +1.8V, +12V, +3.3V, +5V, +5V standby, 5 Phase-switching voltage regulator, Chipset Voltage, HT, Memory, VBAT
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FAN	<ul style="list-style-type: none"> ■ 8x 4-pin fan headers (up to 8 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
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Temperature	<ul style="list-style-type: none"> ■ Monitoring for CPU and chassis environment, CPU thermal trip support, Thermal Control for 8 Fan Connectors, I2C temperature sensing logic, Thermal Monitor 2 (TM2) support, PECI
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LED	<ul style="list-style-type: none"> ■ CPU / System Overheat LED
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Other Features	<ul style="list-style-type: none"> ■ Chassis intrusion detection, Chassis intrusion header, SDDC
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Network Controllers	<ul style="list-style-type: none">Single LAN with Supports 10Base-T, 100BASE-TX, and 1000BASE-T, RJ45 outputSingle LAN with Virtual Machine Device Queues reduce I/O overheadSingle LAN with Realtek RTL8211E PHY (dedicated IPMI)Single LAN with Intel® X540 10GBase-T Ethernet Controller
Graphics	<ul style="list-style-type: none">Aspeed AST2400 BMC

Input / Output


SATA	<ul style="list-style-type: none">2 SATA3 (6Gbps) port4 SATA2 (3Gbps) ports
LAN	<ul style="list-style-type: none">2 RJ45 Gigabit Ethernet LAN ports1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none">6 USB 2.0 ports (3 rear + 2 headers + 1 Type A)
Video Output	<ul style="list-style-type: none">1 VGA port
Serial Port / Header	<ul style="list-style-type: none">2 COM Ports (1 rear, 1 header)
TPM	<ul style="list-style-type: none">1 TPM Header

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X10QBL-4CT	1	X10QBL-4CT Motherboard

Chassis (Optimized for X10QBL-4CT)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
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 = Most optimized Chassis for SuperServer Configuration

Blue color = Compatible

Green color = Global SKU & Compatible

Red dot & green color = Optimized + Global SKU

Server (Optimized for X10QBL-4CT)

Server Name
<u>SYS-8028B-C0R4FT</u>
<u>SYS-8048B-C0R4FT</u>