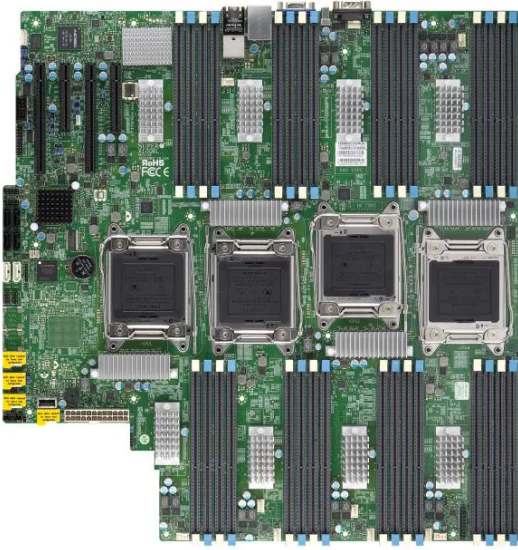


X10QBL-CT (For SuperServer Only)



Key Features

1. Quad socket R3 (LGA 2011) supports Intel® Xeon® processor E5-8800 v4/v3, E7-4800 v4/v3 family (up to 24-Core)
2. Intel® C602J chipset
3. Up to 2TB LRDIMM, 1TB Reg. ECC RDIMM, up to 1600 Mhz; 32 DIMM slots
4. 2 PCI-E 3.0 x16 (slot 1, 3)
2 PCI-E 3.0 x8 (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)
9. Note: E7-48XX/88XX v3 family requires Rev. 2.0x or above boards with Jordan Creek II

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](#)

Specifications

Product SKUs

MBD-X10QBL-CT ■ X10QBL-CT

Physical Stats

Form Factor ■ Proprietary

Dimensions ■ 16.79" x 16.4" (42.65cm x 41.66cm)

Processor/Cache

CPU ■ 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

Cores / Cache ■ Up to 24 cores / Up to 60 MB cache

System Memory

Memory Capacity ■ Up to 2TB 3DS ECC RDIMM, DDR3-1600MHz; Up to 2TB 3DS ECC LRDIMM, DDR3-1600MHz, in 32 DIMM slots

Memory Type ■ 1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs

DIMM Sizes ■ 4GB, 8GB, 16GB, 32GB, 64GB

Memory Voltage ■ 1.35V, 1.5V

Error Detection ■ Corrects single-bit errors
■ Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset ■ Intel® C602J

SATA ■ SATA2 (3 Gbps) RAID 0,1,5,10
■ SATA3 (6 Gbps) RAID 0,1JBOD support (IT Mode)

SAS ■ SAS3 (12Gbps) via Broadcom 3008 controller
SW RAID 0, 1, 10 support

IPMI ■ 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

Network Controllers ■ Dual LAN with Intel® X540 10GBase-T Ethernet Controller X10QBL-CT
Single LAN with Virtual Machine Device Queues reduce I/O overhead
Single LAN with Supports 10Base-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Single LAN with Realtek RTL8211E PHY (dedicated IPMI)

Graphics ■ Aspeed AST2400 BMC

Expansion Slots

PCI-E ■ 2 PCI-E 3.0 x16,
■ 2 PCI-E 3.0 x8,
■ ,
■

System BIOS

BIOS Type ■ 128Mb SPI Flash EEPROM with AMI BIOS

BIOS Features ■ 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

Management

Software ■ IPMI2.0, KVM with dedicated LAN, SPM, SUM, SuperDoctor® 5, Watchdog

Power Configurations ■ ACPI Power Management
■ Main Switch Override Mechanism
■ CPU Fan auto-off in sleep mode
■ Power-on mode for AC power recovery

PC Health Monitoring

Voltage ■ +1.8V, +12V, +3.3V, +5V, +5V standby, 5 Phase-switching voltage regulator, Chipset Voltage, HT, Memory, Monitors for CPU Cores, VBAT

FAN ■ 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

Temperature ■ 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

LED ■ CPU / System Overheat LED

Other Features ■ Chassis intrusion detection, Chassis intrusion header, SDDC


Input / Output


SATA	<ul style="list-style-type: none">■ 2 SATA3 (6Gbps) port■ 4 SATA2 (3Gbps) ports
LAN	<ul style="list-style-type: none">■ 2 RJ45 10GBase-T ports■ 1 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-CT	1	X10QBL-CT Motherboard

Chassis (Optimized for X10QBL-CT)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
 1U Heatsink:SNK-P0047PS  2U Heatsink:SNK-P0048PS	 SC818A-1K43LPB  1U Heatsink:SNK-P0047PS  2U Heatsink:SNK-P0048PS	 <u>SC828TQ-R1K43LPB</u>   <u>SC828TQ-R1K43LPB</u>  1U Heatsink:SNK-P0047PS  2U Heatsink:SNK-P0048PS			 <u>SC748TQ-R1K43B</u>  <u>SC848E16-R1K62B</u>  <u>SC418E16-R1K62B</u>  <u>SC418E16-R1K62B2</u>  1U Heatsink:SNK-P0047PS  2U Heatsink:SNK-P0048PS

 = Most optimized Chassis for SuperServer Configuration
 Blue color = Compatible
 Green color = Global SKU & Compatible
 Red dot & green color = Optimized + Global SKU