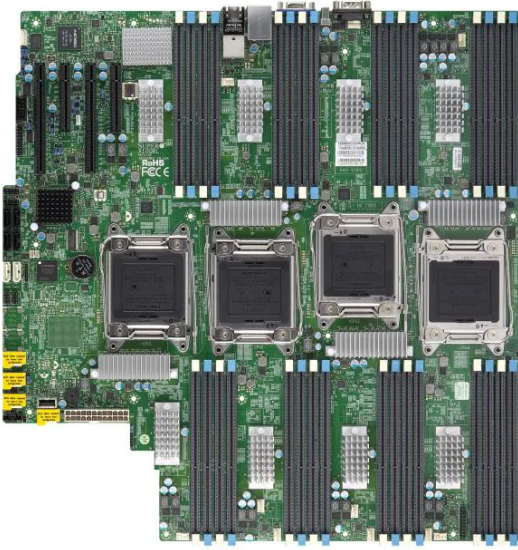


X10QBL (For SuperServer Only)



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 GbE LAN ports, IPMI LAN port, VGA port, TPM header, 2 COM
6. 2 SATA3 (6Gbps ports)
4 SATA2 (3Gbps) ports
7. 6 USB 2.0 ports
(3 rear, 2 via headers, 1 Type A)

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** ■ X10QBL

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 1600/1333/1066 MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-1866MHz, 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 (3Gbps) with RAID 0, 1, 5, 10 SATA3 (6Gbps) with RAID 0, 1
■ JBOD support (IT Mode)

- 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® i350 Gigabit Ethernet Controller For X10QBL only
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

Input / Output

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, Chassis intrusion header, Chipset Voltage, HT, Memory, Monitors for CPU Cores, VBAT

- FAN** ■ 8x 4-pin fan headers (up to 8 fans), Fan 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


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

Chassis (Optimized for X10QBL)

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>  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

Server (Optimized for X10QBL)

Server Name
SYS-8018B-T3F
<u>SYS-8028B-TR3F</u>
<u>SYS-8048B-TR3F</u>
SYS-8018B-C03FT
<u>SYS-8028B-C0R3FT</u>
<u>SYS-8048B-C0R3FT</u>