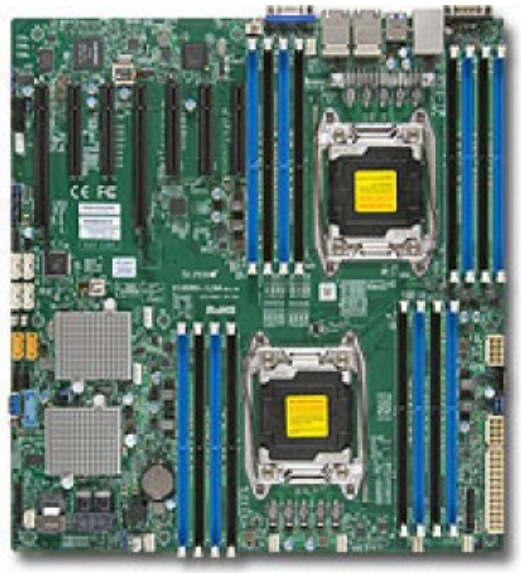
Supermicro MBD-X10DRH-CLN4, Dual SKT, Intel C612 Chipset, SATA, LSI 3008 SAS3, 4xGbE, IPMI Bulk

Part number: MBD-X10DRH-CLN4-B



Category	Server
Form Factor	E-ATX
Dimensions	12" x 13"
CPU Socket	LGA 2011 (Socket R3)
# of CPU sockets	2
Supported CPU's	Intel Xeon E5-2600v4 Intel Xeon E5-2600v3
Chipset	Intel C612 Wellsburg
Memory Type	DDR4 ECC 3DS LRDIMM DDR4 ECC LRDIMM DDR4 ECC RDIMM
Memory Speed	2400 MHz 2133 MHz 1866 MHz 1600 MHz
# of DIMM's	16
Max Memory Size	2048 GB
Integrated GPU	Aspeed AST2400
# of PCIe x16 3.0	2
# of PCIe x4 3.0	1
# of PCIe x8 3.0	4
# of USB Ports	2 x USB 3.0 (rear) 2 x USB 3.0 (header) 1 x USB 3.0 Type A 4 x USB 2.0 (header)
# of SATA Ports	10
Storage Controllers	6 x AHCI iSATA 6Gb/s 4 x sSATA 6Gb/s LSI 3008 12Gb/s
Integrated RAID	0,1,5,10
Hardware RAID	0,1,10
# of Serial Ports	1 x Fast UART 16550 (rear) 1 x Fast UART 16550 (header)
# of 1GbE Ports	4 x RJ45
Network Controllers	Intel i350 Quad Port Gigabit Ethernet
Integrated BMC	IPMI Dedicated RJ45
BMC chip	Aspeed AST2400
TPM	1 x TPM 1.2 20-pin Header

Product SKUs

MBD-X10DRH-CLN4-O	• X10DRH-CLN4 (Retail Pack)
MBD-X10DRH-CLN4-B	• X10DRH-CLN4 (Bulk Pack)

Physical Stats

Form Factor	• E-ATX
Dimensions	• 12" x 13" (30.5cm x 33.2cm)

Processor/Cache

CPU	• Intel® Xeon® processor E5-2600 **v4**†/ v3 family (up to 145W TDP**) • Dual Socket R3 (LGA 2011)
Cores / Cache	• Up to **22 Cores**† / Up to **55MB**† Cache
System Bus	• QPI up to 9.6 GT/s
Note	† BIOS version 2.0 or above is required
Note	** Motherboard supports this maximum TDP. Please verify your system can thermally support.

System Memory

Memory Capacity	• 16x 288-pin DDR4 DIMM slots • Up to 2TB† ECC 3DS LRDIMM, 512GB ECC RDIMM
Memory Type	• **2400**†/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	• RDIMM: 32GB, 16GB, 8GB, 4GB • LRDIMM: 64GB, 32GB • 3DS LRDIMM: 128GB
Memory Voltage	• 1.2 V
Error Detection	• Corrects single-bit errors

On-Board Devices

Chipset	• Intel® C612 chipset
AHCI SATA	• SATA3 (6Gbps); RAID 0, 1, 5, 10
SCU SATA	• SATA3 (6Gbps); RAID 0, 1, 5, 10
SAS	• LSI 3008 SAS3 (12Gbps) controller; SW RAID 0, 1, 10 • 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	• Intel® i350 Quad Gigabit Ethernet LAN • Virtual Machine Device Queues reduce I/O overhead
Video	• ASPEED AST2400 BMC

Input / Output

SATA	• 10x SATA3 (6Gbps) ports
SAS	• 8x SAS3 (12Gbps) ports
LAN	• 4x RJ45 Gigabit Ethernet LAN ports • 1x RJ45 Dedicated IPMI LAN port
USB	• 5x USB 3.0 ports (2 rear + 2 via header + 1 Type A) • 4x USB 2.0 ports (4 via headers)
Video	• 1x VGA Connector
Serial Port / Header	• 1x Fast UART 16550 serial • 2x COM Ports (1 rear, 1 header)
DOM	• 2x SuperDOM (Disk on Module) ports
TPM	• 1x TPM 1.2 20-pin Header

Chassis (Optimized for X10DRH-CLN4)

2U Chassis:	• SC826BE1C-R920LPB • SC826BE2C-R920LPB • SC826BAC4-R920LPB • SC216BE1C-R920LPB • SC216BE2C-R920LPB
3U Chassis:	• SC836BE1C-R1K03B • SC836BE2C-R1K03B • SC835TQ-R920B
Mid/Mini Tower Chassis:	• SC732i-865B • SC732D4F-903B
4U / Tower Chassis:	• SC743TQ-1200B • SC847BE1C-R1K28LPB • SC847BE2C-R1K28LPB
Important Chassis Notes	• To support the new generation Intel® Xeon® processor-based motherboards, **Revision M** chassis is recommended. Please talk to your sales representative for details.

Expansion Slots

PCI-Express	• 2x PCI-E 3.0 x16 • 4x PCI-E 3.0 x8 • 1x PCI-E 3.0 x4 (in x8)

System BIOS

BIOS Type	• 128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	• Plug and Play (PnP) • 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	• Intel® Node Manager 3.0 • IPMI 2.0 • NMI • SPM • SSM • SUM • SuperDoctor® III • SuperDoctor® 5 • Watch Dog
Power Configurations	• ACPI / APM Power Management • Power-on mode for AC power recovery

PC Health Monitoring

Voltage	• Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory Voltages. • 6 Phase-switching voltage regulator
FAN	• 8x 4-pin fan headers (up to 8 fans) • 8x fans with tachometer monitoring • Status monitor for speed control • Pulse Width Modulated (PWM) fan connectors
Temperature	• Monitoring for CPU and chassis environment • CPU thermal trip support • Thermal Control for 8x Fan Connectors • Thermal Monitor 2 (TM2) support • PECI
LED	• CPU / System Overheat LED • Suspend static indicator LED • UID/Remote UID
Other Features	• Chassis intrusion detection • Chassis intrusion header • SDDC Support • RoHS

Operating Environment

Operating Temperature Range	• 10°C - 35°C (50°F - 95°F)
Non-Operating Temperature Range	• -40°C - 70°C (-40°F - 158°F)
Operating Relative Humidity Range	• 8% - 90% (non-condensing)
Non-Operating Relative Humidity Range	• 5% - 95% (non-condensing)

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