Supermicro MBD-X10DRC-LN4+, Dual SKT, Intel C612 Chipset, SATA, LSI 3108 SAS3, 4xGbE, IPM

Part number: MBD-X10DRC-LN4+-O

Category	Workstation
Form Factor	EE-ATX
Dimensions	13.7" x 13"
CPU Socket	LGA 2011 (Socket R3)
# of CPU sockets	2
Supported CPU's	Intel Xeon E5-2600v3 Intel Xeon E5-2600v4
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	24
Max Memory Size	3072 GB
Integrated GPU	Aspeed AST2400
# of PCIe x16 3.0	2
# of PCIe x8 3.0	3
# of PCIe x4 2.0	1
# of USB Ports	2 x USB 3.0 (rear) 2 x USB 3.0 (internal) 1 x USB 3.0 Type A 2 x USB 2.0 (rear) 2 x USB 2.0 (internal)
# of SATA Ports	10
# of SATA DOM power	2
# of SAS Ports	8
Storage Controllers	6 x AHCI iSATA 6Gb/s 4 x sSATA 6Gb/s LSI 3108 12Gb/s
Integrated RAID	0,1,5,10
Hardware RAID	0,1,5,6,10,50,60
# 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-X10DRC-LN4+-O	• X10DRC-LN4+ (Bulk Pack)

Physical Stats

Form Factor	• Enhanced Extended ATX
Dimensions	• 13.68" x 13" (34.74cm x 33cm)

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	• 24x 288-pin DDR4 DIMM slots • Up to 3TB[†] ECC 3DS LRDIMM, 768GB 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
SAS	• LSI 3108 SAS3 (12Gbps) controller; HW RAID 0, 1, 5, 6, 10, 50, 60 • 2GB Cache with optional SuperCap backup module • Supports up to 16 devices as default, more HDD devices support is also available as an option * For special SKU, please contact your Supermicro Sales.
AHCI SATA	• SATA3 (6Gbps); RAID 0, 1, 5, 10
SCU SATA	• SATA3 (6Gbps); RAID 0, 1, 5, 10
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 Port Gigabit Ethernet • Virtual Machine Device Queues reduce I/O overhead • Supports 10Base-T, 100BASE-TX, and 1000BASE-T, RJ45 output • 1x Realtek RTL8211E PHY (dedicated IPMI)
Video	• ASPEED AST2400 BMC • Video resolution up to 1920x1200 @ 60Hz 32BPP

Input / Output

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

Chassis (Optimized for X10DRC-LN4+)

2U Chassis:	• SC826BE1C-R920LPB • SC216BAC-R920LPB • SC826BAC4-R920LPB • SC216BE1C-R920LPB • SC826BE2C-R920LPB • SC216BE2C-R920LPB
3U Chassis:	• SC836BE1C-R1K03B • SC835BTQ-R1K28B
4U / Tower Chassis:	• SC847BE1C-R1K28LPB • SC846BE1C-R1K28B • SC745TQ-R920B
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.

SuperServer(s) with X10DRC-LN4+

Model(s)	• SYS-7048R-C1R4+ • SYS-2028R-C1R4+

Expansion Slots

PCI-Express	• 2x PCI-E 3.0 x16 • 3x PCI-E 3.0 x8 • 1x PCI-E 2.0 x4 (in x8)

System BIOS

BIOS Type	• 128Mb SPI Flash EEPROM with UEFI 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 • NMI • SPM • SUM • SuperDoctor® 5 • Watch Dog
Power Configurations	• ACPI 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)

Visit us for more info: https://www.superstorage.pl/supermicro-mbd-x10drc-ln4-dual-skt-intel-c612-chipset-sata-lsi-3108-sas3-4xgbe-ipm-p-1354.html