

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

Kod producenta: 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
Uwagi	PCI-Express Slots Configuration: 2x PCI-E 3.0 x16 slots 3x PCI-E 3.0 x8 slots 1x PCI-E 2.0 x4 (for x8 slot)



Product SKUs

MBD-X10DRC-LN4+ • X10DRC-LN4+ (Bulk Pack)  
-O

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<sup>†</sup>/ v3 family (up to 145W TDP\*\*) • Dual Socket R3 (LGA 2011)  
Cores / Cache • Up to **22 Cores**<sup>†</sup> / Up to **55MB**<sup>†</sup> Cache  
System Bus • QPI up to 9.6 GT/s  
Note <sup>†</sup> BIOS version 2.0 or above is required  
**\*\* 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<sup>†</sup> 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 • LSI 3108 SAS3 (12Gbps) controller; HW RAID 0, 1, 5, 6, 10, 50, 60 • 2GB Cache with optional SuperCap backup module  
SAS • 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 • Support for Intelligent Platform Management Interface v.2.0  
IPMI • IPMI 2.0 with virtual media over LAN and KVM-over-LAN support • ASPEED AST2400 BMC • Intel® i350 Quad Port Gigabit Ethernet • Virtual Machine Device Queues reduce I/O overhead  
Network Controllers • 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 Super**DOM** (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](#) • [SC835BTO-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 • Plug and Play (PnP) • PCI 2.3  
BIOS Features • 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.  
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)

Strona firmowa produktu:

<https://www.superstorage.pl/supermicro-mbd-x10drc-ln4-dual-skt-intel-c612-chipset-sata-lsi-3108-sas3-4-xgbe-ipmi-p-1354.html>