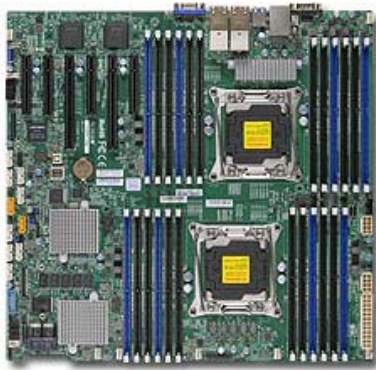


X10DRC-LN4+

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Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. Intel® C612 chipset
3. Up to 1.5TB reg. ECC DDR4 2133MHz; 24x DIMM sockets
4. 2x PCI-E 3.0 x16, 3x PCI-E 3.0 x8, and 1x PCI-E 2.0 x4 (in x8) slot
5. Quad LAN w/ Intel® i350 GbE
6. 10x SATA3 (6Gbps) ports w/ Intel C612 controller; RAID 0, 1, 5, 10
7. 8x SAS3 (12Gbps) ports w/ LSI 3108 controller; RAID 0, 1, 5, 6, 10, 50, 60 SuperCap option support
8. Integrated IPMI 2.0 and KVM with Dedicated LAN
9. 3x USB 3.0 (2 rear, 1 Type A)

Links & Resources

- [▶ Tested Memory List](#)
- [▶ Tested HDD / SSD List](#)
- [▶ Update Your BIOS](#)
- [▶ IPMI Firmware](#)
- [▶ Download the Latest Drivers and Utilities](#)
- [▶ Download Driver CD](#)
- [▶ Heat Sink Compatibility](#)
- [▶ OS Compatibility](#)

Specifications

Product SKUs	
MBD-X10DRC-LN4+ -B	▪ X10DRC-LN4+ (Bulk Pack)
MBD-X10DRC-LN4+ -P	▪ X10DRC-LN4+ (Retail 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 v3 family (up to 145W TDP **) ▪ Dual Socket R3 (LGA 2011)
Cores / Cache	▪ Up to 18 Cores / Up to 45MB Cache
System Bus	▪ QPI up to 9.6 GT/s
Note	** Motherboard supports this maximum TDP. Please verify your system can thermally support.
System Memory	
Memory Capacity	▪ 24x 288-pin DDR4 DIMM sockets ▪ Up to 1.5TB ECC LRDIMM, 768GB ECC RDIMM
Memory Type	▪ 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	▪ RDIMM: 32GB, 16GB, 8GB, 4GB ▪ LRDIMM: 64GB, 32GB
Memory Voltage	▪ 1.2 V
Error Detection	▪ Corrects single-bit errors ▪ Detects double-bit errors (using ECC memory)
On-Board Devices	
Chipset	▪ Intel® C612 Express chipset
SATA	▪ SATA3 (6Gbps); RAID 0, 1, 5, 10 ▪ LSI 3108 SAS3 (12Gbps) controller; HW RAID 0, 1, 5, 6, 10, 50, 60
SAS	▪ 2GB Cache with optional SuperCap backup module

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) ▪ 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	▪ Intel® Node Manager 3.0 ▪ NMI ▪ SPM ▪ SUM ▪ 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. ▪ 5+1 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
	▪ Monitoring for CPU and chassis environment ▪ CPU thermal trip support

IPMI	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> ASPEED AST2400 BMC Video resolution up to 1920x1200 @ 60Hz 32BPP
Input / Output	
SATA	<ul style="list-style-type: none"> 10x SATA3 (6Gbps) ports
SAS	<ul style="list-style-type: none"> 8x SAS3 (12Gbps) ports SuperCap option support
LAN	<ul style="list-style-type: none"> 4x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 3x USB 3.0 ports (2 rear + 1 Type A)
Video	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 2x Fast UART 16550 serial 2x COM Ports (1 rear, 1 header)
DOM	<ul style="list-style-type: none"> 2x SuperDOM (Disk on Module) ports
TPM	<ul style="list-style-type: none"> 1x TPM 1.2 20-pin Header

Temperature	<ul style="list-style-type: none"> Thermal Control for 8x Fan Connectors Thermal Monitor 2 (TM2) support PECI
LED	<ul style="list-style-type: none"> CPU / System Overheat LED Suspend static indicator LED UID/Remote UID
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header SDDC Support RoHS
Operating Environment	
Operating Temperature Range	<ul style="list-style-type: none"> 10°C - 35°C (50°F - 95°F)
Non-Operating Temperature Range	<ul style="list-style-type: none"> -40°C - 70°C (-40°F - 158°F)
Operating Relative Humidity Range	<ul style="list-style-type: none"> 8% - 90% (non-condensing)
Non-Operating Relative Humidity Range	<ul style="list-style-type: none"> 5% - 95% (non-condensing)

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

Parts List

Parts List (Bulk)			
	Part Number	Qty	Description
X10DRC-LN4+	MBD-X10DRC-LN4+	1	X10DRC-LN4+ Motherboard
I/O Shield	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket
I/O Cables	CBL-0044L	2	SATA CABLE 61CM FLAT S-S PBF

Optional Parts List			
	Part Number	Qty	Description
Heat Sink (optional, not included)	-	-	CPU Heat Sink reference
TPM security module (optional, not included)	AOM-TPM-9655V or AOM-TPM-9655H	-	TPM module with Infineon 9655, RoHS/REACH,PBF; Vertical or Horizontal depends on the server
SuperDOM	-	-	Supermicro SATA DOM Solutions [Details]
SuperCap TFM module	BTR-TFM8G-LSICVM02	-	SuperCap TFM module
I/O Cables	CBL-SAST-0532	2	Internal Mini-SAS HD to Mini-SAS HD 50cm,30AWG,12Gb/s,HF,RoHS/REACH,PBF

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