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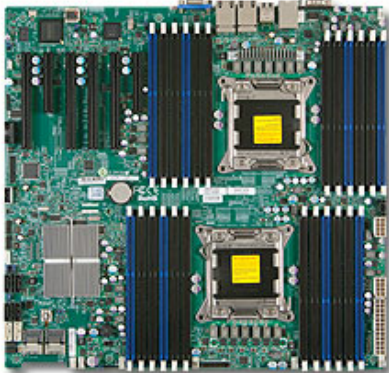
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X9DRi-LN4F+

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Key Features

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600

2. Intel® C602 chipset; QPI up to 8.0GT/s

3. Up to 768GB DDR3 1600MHz\* ECC Registered DIMM; 24x DIMM sockets  
\* Depends on memory configuration

4. Expansion slots: 4 x16 PCI-E 3.0, 1 x8 PCI-E 3.0, 1 x4 PCI-E 3.0 (in x8)

5. 4x Gigabit Ethernet LAN ports; Intel® i350 GbE controller

6. 8x SATA2 and 2x SATA3 ports

7. Integrated IPMI 2.0 and KVM with Dedicated LAN

8. 9x USB 2.0 ports (4 rear, 4 via header + 1 Type A)

Links & Resources

[▶ Tested Memory List](#)

[▶ Tested HDD List](#)

[▶ Motherboard Manual](#)

[▶ Update Your BIOS](#)

[▶ IPMI Firmware](#)

[▶ Download the Latest Drivers and Utilities](#)



Specifications

|                    |                                                                                                                                                                                                            |                                       |                                                                                                                                                                                                                                                          |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product SKUs       |                                                                                                                                                                                                            | Chassis ( Optimized for X9DRi-LN4F+ ) |                                                                                                                                                                                                                                                          |
| MBD-X9DRi-LN4F+ -B | ■ X9DRi-LN4F+ (Bulk Pack)                                                                                                                                                                                  | 2U Chassis                            | ■ CSE-825TQ-R740LPB<br>■ CSE-826E16-R920LPB                                                                                                                                                                                                              |
| Physical Stats     |                                                                                                                                                                                                            | 3U Chassis                            | ■ CSE-835TQ-R920B<br>■ CSE-836BA-R920B                                                                                                                                                                                                                   |
| Form Factor        | ■ Enhanced Extended ATX                                                                                                                                                                                    | Tower / 4U Rackmount                  | ■ CSE-745TQ-R920B<br>■ CSE-846BE16-R920B<br>■ CSE-847E16-R1K28LPB                                                                                                                                                                                        |
| Dimensions         | ■ 13.68" x 13" (34.7cm x 33cm)                                                                                                                                                                             | Important Chassis Notes               | ■ To support the new generation Intel® Xeon® processor-based motherboards, <b>Revision M</b> chassis is recommended. Please talk to your sales representative for details.<br>■ Please use optional I/O shield MCP-260-00041-0N in Supermicro 1U chassis |
| Processor/Cache    |                                                                                                                                                                                                            | Expansion Slots                       |                                                                                                                                                                                                                                                          |
| CPU                | ■ Intel® Xeon® processor E5-2600<br>■ Dual Socket R (LGA 2011)                                                                                                                                             | PCI-Express                           | ■ 4 (x16) PCI-E 3.0 slots<br>■ 1 (x8) PCI-E 3.0 slot<br>■ 1 (x4) PCI-E 3.0 (in x8) slot                                                                                                                                                                  |
| Cache              | ■ Up to 20MB                                                                                                                                                                                               |                                       | (Both CPUs need to be installed for full access to PCI-E slots. See manual for details.)                                                                                                                                                                 |
| System Bus         | ■ QPI up to 8 GT/s                                                                                                                                                                                         | System BIOS                           |                                                                                                                                                                                                                                                          |
| System Memory      |                                                                                                                                                                                                            | BIOS Type                             | ■ 128Mb SPI Flash EEPROM with AMI BIOS                                                                                                                                                                                                                   |
| Memory Capacity    | ■ 24x 240-pin DDR3 DIMM sockets<br>■ Supports up to 768 GB DDR3 ECC Registered memory (RDIMM) in 24 DIMM sockets<br>■ Supports up to 128 GB DDR3 ECC/non-ECC Un-Buffered memory (UDIMM) in 24 DIMM sockets | Plus and Plus (DrD)                   |                                                                                                                                                                                                                                                          |
| Memory Type        | ■ 1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs<br>■ Support ECC and non-ECC UDIMMs                                                                                               |                                       |                                                                                                                                                                                                                                                          |
| DIMM Sizes         | ■ 32GB, 16GB, 8GB, 4GB, 2GB, 1GB                                                                                                                                                                           |                                       |                                                                                                                                                                                                                                                          |
| ..                 |                                                                                                                                                                                                            |                                       |                                                                                                                                                                                                                                                          |

www.supermicro.com/products/motherboard/Xeon/C600/X9DRi-LN4F\_.cfm

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|                        |                                                                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>memory Voltage</b>  | <ul style="list-style-type: none"> <li>1.5 V, 1.35 V</li> </ul>                                                                    |
| <b>Error Detection</b> | <ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul> |

**On-Board Devices**

|                            |                                                                                                                                                                                                                                                                            |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chipset</b>             | <ul style="list-style-type: none"> <li>Intel® C602 chipset</li> </ul>                                                                                                                                                                                                      |
| <b>SATA</b>                | <ul style="list-style-type: none"> <li>SATA3 (6Gbps) and SATA2 (3Gbps)</li> <li>RAID 0, 1, 5, 10 support</li> </ul>                                                                                                                                                        |
| <b>IPMI</b>                | <ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>Nuvoton WPCM450 BMC</li> </ul>                                                          |
| <b>Network Controllers</b> | <ul style="list-style-type: none"> <li>Intel® i350 Gigabit Ethernet (x4 ports)</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>1x Realtek RTL8201N PHY (dedicated IPMI)</li> </ul> |
| <b>Video</b>               | <ul style="list-style-type: none"> <li>Matrox G200eW</li> </ul>                                                                                                                                                                                                            |

**Input / Output**

|                             |                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>SATA</b>                 | <ul style="list-style-type: none"> <li>2x SATA 3.0 ports (6Gbps)</li> <li>8x SATA 2.0 ports (3Gbps)</li> </ul>                |
| <b>LAN</b>                  | <ul style="list-style-type: none"> <li>4x RJ45 Gigabit Ethernet LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul> |
| <b>USB</b>                  | <ul style="list-style-type: none"> <li>9x USB 2.0 ports total (4x rear + 4x via header + 1x Type A)</li> </ul>                |
| <b>Video</b>                | <ul style="list-style-type: none"> <li>1x VGA port</li> </ul>                                                                 |
| <b>Serial Port / Header</b> | <ul style="list-style-type: none"> <li>2x Fast UART 16550 ports: 1 rear and 1 header</li> </ul>                               |

- 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

**BIOS Features****Management**

- |                             |                                                                                                                            |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Software</b>             | <ul style="list-style-type: none"> <li>SuperDoctor® III</li> <li>Watch Dog</li> <li>NMI</li> <li>IPMI 1.5 / 2.0</li> </ul> |
| <b>Power Configurations</b> | <ul style="list-style-type: none"> <li>ACPI / APM Power Management</li> <li>Power-on mode for AC power recovery</li> </ul> |

**PC Health Monitoring**

- |                       |                                                                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Voltage</b>        | <ul style="list-style-type: none"> <li>Monitors for CPU Cores, +1.1V, +1.5V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory Voltages.</li> <li>6+1 Phase-switching voltage regulator</li> </ul>                          |
| <b>FAN</b>            | <ul style="list-style-type: none"> <li>8x 4-pin fan headers (up to 8 fans)</li> <li>8x fans with tachometer monitoring</li> <li>Status monitor for speed control</li> <li>Pulse Width Modulated (PWM) fan connectors</li> </ul>      |
| <b>Temperature</b>    | <ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>CPU thermal trip support</li> <li>Thermal Control for 8x Fan Connectors</li> <li>Thermal Monitor 2 (TM2) support</li> <li>PECI</li> </ul> |
| <b>LED</b>            | <ul style="list-style-type: none"> <li>CPU / System Overheat LED</li> <li>Suspend static indicator LED</li> <li>UID/Remote UID</li> </ul>                                                                                            |
| <b>Other Features</b> | <ul style="list-style-type: none"> <li>Chassis intrusion detection</li> <li>Chassis intrusion header</li> <li>RoHS, Halogen Free</li> </ul>                                                                                          |

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

**Parts List****Parts List (retail)**

|                    | Part Number      | Qty | Description                                           |
|--------------------|------------------|-----|-------------------------------------------------------|
| <b>X9DRi-LN4F+</b> | MBD-X9DRi-LN4F+  | 1   | X9DRi-LN4F+ Motherboard                               |
| <b>I/O Cables</b>  | CBL-0044L        | 2   | SATA CABLE 61CM FLAT S-S PBF                          |
| <b>I/O Cables</b>  | CBL-0097L-03     | 1   | 30AWG 50CM Ipass to 4 SATA, W/50cm SB, S              |
| <b>I/O Shield</b>  | MCP-260-00042-0N | 1   | STD I/O shield for X9 socket R server MB with Gasket. |

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