

# X9SRL-F

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### Key Features

1. Single socket R (LGA 2011) supports Intel® Xeon® processor E5-2600/1600 and **E5-2600/1600 v2** family†
2. Intel® C602 chipset; QPI up to 8.0GT/s
3. Up to 512GB ECC DDR3, up to 1866MHz; 8x DIMM sockets
4. Expansion slots: 2 PCI-E 3.0 x8, 2 PCI-E 3.0 x8 (in x16), 2 PCI-E 3.0 x4 (in x8), 1 PCI-E 2.0 x4 (in x8)
5. Intel® 82574L Dual port GbE LAN
6. 2 SATA3 (6Gb/s), 4 SATA2 (3Gb/s), & 4 SATA2 (3Gb/s) ports via SCU
7. Integrated IPMI 2.0 and KVM with Dedicated LAN
8. 9 USB 2.0 ports (2 rear + 6 via header + 1 Type A)
9. DOM power connector support

### Links & Resources

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

### Specifications

Product SKUs	
<b>MBD-X9SRL-F -B</b>	X9SRL-F (Bulk Pack)
Physical Stats	
<b>Form Factor</b>	*ATX
<b>Dimensions</b>	*12" x 9.6", (30.5cm x 24.4cm)
Processor/Cache	
<b>CPU</b>	<ul style="list-style-type: none"> <li>▪ Single Socket R (LGA 2011)</li> <li>▪ Intel® Xeon® processor E5-2600/1600 and <b>E5-2600/1600 v2</b> family† (up to 12 cores and up to 130W)</li> </ul>
<b>Note</b>	† BIOS version 3.0 or above is required
System Memory	
<b>Memory Capacity</b>	<ul style="list-style-type: none"> <li>▪ 8x 240-pin DDR3 DIMM sockets</li> <li>▪ Up to 512GB DDR3 ECC LRDIMM</li> <li>▪ Up to 256GB DDR3 ECC RDIMM</li> <li>▪ Up to 64GB DDR3 ECC/non-ECC UDIMM</li> </ul>
<b>Memory Type</b>	▪ 1866/1600/1333/1066MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
<b>DIMM Sizes</b>	▪ 32GB, 16GB, 8GB, 4GB, 2GB, 1GB, 64GB LRDIMM
<b>Memory Voltage</b>	▪ 1.5 V, 1.35 V
<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>	▪ Intel C602 chipset
<b>SATA</b>	<ul style="list-style-type: none"> <li>▪ SATA3 (6Gb/s) and SATA2 (3Gb/s)</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 WPCM450RA0BX</li> </ul>
	▪ Intel® 82574L Dual Port Gigabit

Chassis ( Optimized for X9SRL-F )	
<b>2U Chassis</b>	<ul style="list-style-type: none"> <li>▪ CSE-823TQ-650B</li> <li>▪ CSE-823TQ-653LPB</li> <li>▪ CSE-826E16-R500LPB</li> <li>▪ CSE-826TQ-R500LPB</li> </ul>
<b>3U Chassis</b>	<ul style="list-style-type: none"> <li>▪ CSE-836E16-R500B</li> <li>▪ CSE-836TQ-R500B</li> </ul>
<b>Tower / 4U Rackmount</b>	▪ CSE-842TQ-665B
<b>Important Chassis Notes</b>	▪ To support motherboards based on Intel® Xeon® processor 5500/3500 series, <b>Revision K</b> or later chassis is recommended for most models. Please talk to your sales representative for details.
Expansion Slots	
<b>PCI-Express</b>	<ul style="list-style-type: none"> <li>▪ 2x PCI-E 3.0 x8 (in x16) slots</li> <li>▪ 2x PCI-E 3.0 x8 slots</li> <li>▪ 2x PCI-E 3.0 x4 (in x8) slots</li> <li>▪ 1x PCI-E 2.0 x4 (in x8) slot</li> </ul>
System BIOS	
<b>BIOS Type</b>	▪ 64Mb SPI Flash EEPROM with AMI BIOS
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>▪ Plug and Play (PnP)</li> <li>▪ APM 1.2</li> <li>▪ DMI 2.3</li> <li>▪ PCI 2.3</li> <li>▪ ACPI 1.0 / 2.0 / 3.0 / 4.0</li> <li>▪ USB Keyboard support</li> <li>▪ Hardware BIOS Virus protection</li> <li>▪ SMBIOS 2.7.1</li> <li>▪ UEFI 2.3.1</li> <li>▪ RTC (Real Time Clock) Wakeup</li> </ul>
Management	
<b>Software</b>	<ul style="list-style-type: none"> <li>▪ IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support</li> <li>▪ SuperDoctor® III</li> <li>▪ Watch Dog</li> <li>▪ NMI</li> </ul>
	<ul style="list-style-type: none"> <li>▪ ACPI / APM Power Management</li> <li>▪ Keyboard Wakeup from Soft-Off</li> </ul>

<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>Ethernet</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>Matrox G200eW 16MB DDR2 graphics</li> </ul>
<b>Input / Output</b>	
<b>SATA</b>	<ul style="list-style-type: none"> <li>2 SATA 3.0 ports (6Gb/s)</li> <li>4 SATA 2.0 ports (3Gb/s)</li> </ul>
<b>SCU</b>	<ul style="list-style-type: none"> <li>4 SATA ports (3Gb/s) via SCU</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>2 RJ45 Gigabit Ethernet LAN ports</li> <li>1 RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>9 USB 2.0 ports total (2 rear + 6 via header + 1 Type A)</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>1 VGA port</li> </ul>
<b>Keyboard/Mouse</b>	<ul style="list-style-type: none"> <li>2 PS/2 Keyboard/Mouse ports</li> </ul>
<b>Serial Port / Header</b>	<ul style="list-style-type: none"> <li>1 serial port, 1 by headers</li> </ul>
<b>DOM</b>	<ul style="list-style-type: none"> <li>1 DOM (Disk on Module) power connector</li> </ul>
<b>TPM</b>	<ul style="list-style-type: none"> <li>1 TPM 1.2 20-pin Header</li> </ul>
<b>OS Compatibility</b>	
<ul style="list-style-type: none"> <li>Please reference the <a href="#">OS Compatibility Chart</a> for details</li> </ul>	

<b>Power Configurations</b>	<ul style="list-style-type: none"> <li>CPU Fan auto-off in sleep mode</li> <li>Power-on mode for AC power recovery</li> </ul>
<b>PC Health Monitoring</b>	
<b>Voltage</b>	<ul style="list-style-type: none"> <li>Monitors for CPU Cores, +3.3V, +5V, ±12V, +5V Standby, VBAT, HT, Memory, Chipset Voltages.</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>Total of 5 fan headers supporting up to 5 fans</li> <li>5 fans with tachometer status monitoring</li> <li>Status monitor for speed control</li> <li>Status monitor for on/off control</li> <li>Low noise fan 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>i<sup>2</sup>C temperature sensing logic</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>Chipkill support</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 (Bulk Package)			
	Part Number	Qty	Description
<b>Motherboard</b>	MBD-X9SRL-F	1	X9SRL-F Motherboard
<b>I/O Cables</b>	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
<b>I/O Shield</b>	MCP-260-00027-0N	1	STD I/O SHIELD

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