

# X10SLH-F

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## Key Features

1. Single socket H3 (LGA 1150) supports Intel® Xeon® E3-1200 v3, 4th gen. Core i3, Pentium, Celeron processors
2. Intel® C226 Express PCH
3. Up to 32GB DDR3 ECC 1600MHz UDIMMs in 4 sockets
4. Dual Gigabit Ethernet LAN ports via 2x Intel® i210AT
5. 6x SATA (6Gbps)
6. 1x PCI-E 3.0 x8 (in x16), 1x PCI-E 3.0 x8, and 1x PCI-E 2.0 x4 (in x8) slots
7. 4x USB 3.0 (2 in the rear, 1 Type-A, 1 via header)  
6x USB 2.0 (4 rear, 2 via header)
8. Integrated IPMI 2.0 with KVM and Dedicated LAN
9. SATA DOM power connector support
10. VGA D-sub connector, TPM header
11. Support Intel VHD and Node Manager



[See Image w/ Features](#)

## Links & Resources

- [Tested Memory List](#)
- [Tested HDD List](#)
- [Motherboard Manual](#)
- [Update Your BIOS](#)
- [IPMI Firmware](#)
- [Download the Latest Drivers and Utilities](#)
- [Download Driver CD](#)
- [OS Compatibility](#)

## Specifications

Product SKUs	
<b>MBD-X10SLH-F</b>	X10SLH-F (Bulk Pack)
Physical Stats	
<b>Form Factor</b>	uATX
<b>Dimensions</b>	9.6" x 9.6", (24.4cm x 24.4 cm)
Processor/Cache	
<b>CPU</b>	<ul style="list-style-type: none"> <li>Intel® Xeon® processor E3-1200 v3 (supports VHD via E3-1285 or E3-1285L) and 4th Gen Core i3, Pentium, Celeron processors</li> <li>Single Socket H3 (LGA 1150)</li> </ul>
System Memory	
<b>Memory Capacity</b>	<ul style="list-style-type: none"> <li>4x 240-pin DDR3 DIMM sockets</li> <li>Supports up to 32 GB DDR3 ECC Un-Buffered memory (UDIMM)</li> </ul>
<b>Memory Type</b>	1600MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
<b>DIMM Sizes</b>	8GB, 4GB, 2GB, 1GB
<b>Memory Voltage</b>	1.5 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® C226 Express PCH
<b>SATA</b>	SATA3 (6Gbps) w/ RAID 0, 1, 5, 10
<b>IPMI</b>	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 w/ virtual media over LAN and KVM-over-LAN support</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>Intel® i210AT Controllers</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>1x Realtek RTL8211E P+Y (dedicated IPMI)</li> </ul>
<b>VGA</b>	BMC integrated Aspeed AST2400
Input / Output	
<b>Serial ATA</b>	6x SATA3 (6Gbps) ports
<b>LAN</b>	<ul style="list-style-type: none"> <li>2x Gigabit Ethernet LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>4x USB 3.0 ports (2 rear, 1 Type-A, 1 via header)</li> <li>6x USB 2.0 ports (2 rear, 4 via header)</li> </ul>
<b>VGA</b>	1x VGA D-Sub Connector
<b>Serial Port / Header</b>	2x COM ports (1 rear, 1 header)
<b>DOM</b>	SATA DOM (Disk on Module) power connector support
<b>TPM</b>	1x TPM 1.2 20-pin Header

Chassis (Optimized for X10SLH-F)	
<b>1U Chassis:</b>	<ul style="list-style-type: none"> <li>SC113MTQ-330CB</li> <li>SC113MTQ-R400CB</li> <li>SC512F-350B</li> <li>SC512F-441B</li> <li>SC811TQ-441B</li> <li>SC813MTQ-350CB</li> <li>SC813MTQ-441CB</li> <li>SC813MTQ-R400CB</li> </ul>
<b>Mid/Mini Tower Chassis:</b>	<ul style="list-style-type: none"> <li>SC731i-300B</li> <li>SC732D4-500B</li> <li>SC732D4-865B</li> <li>SC732D4-903B</li> <li>SC733TQ-500B</li> <li>SC733TQ-665B</li> </ul>
<b>Important Chassis Notes</b>	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.
Expansion Slots	
<b>PCI-Express</b>	<ul style="list-style-type: none"> <li>1x PCI-E 3.0 x8 (in x16) slot</li> <li>1x PCI-E 3.0 x8 slot</li> <li>1x PCI-E 2.0 x4 (in x8) slot</li> </ul>
System BIOS	
<b>BIOS Type</b>	128Mb SPI Flash EEPROM w/ AMI BIOS
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>DMI (SMBIOS) 2.7</li> <li>ACPI 5.0</li> <li>USB Keyboard support</li> </ul>
Management	
<b>Software</b>	<ul style="list-style-type: none"> <li>IPMI (Intelligent Platform Management Interface) v2.0 with KVM support</li> <li>SuperDoctor® III</li> <li>Watch Dog</li> <li>NMI</li> </ul>
<b>Power Configurations</b>	<ul style="list-style-type: none"> <li>ACPI / ACPM Power Management</li> <li>Main Switch Override Mechanism</li> <li>Power-on mode for AC power recovery</li> <li>Internal/External modem ring-on</li> </ul>
PC Health Monitoring	
<b>Voltage</b>	<ul style="list-style-type: none"> <li>Monitors for CPU Cores, +12V, +3.3V, +5V, +5V Standby, VBAT, HT, Memory, Chipset Voltages.</li> <li>5-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>Total of five 4-pin fan headers supporting up to 5 fans</li> <li>5x fans with tachometer status monitoring</li> <li>Status monitor for speed control</li> <li>Status monitor for on/off control</li> <li>Support 3-pin fans (w/o speed 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>FC 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>+5V Standby alert LED</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>Chassis intrusion detection</li> <li>Chassis intrusion header</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-X10SLH-F	1	X10SLH-F Motherboard
<b>Quick Reference Guide</b>	<a href="#">MNL-1464-QRG</a>	1	X10SLH-F Quick Reference Guide
<b>I/O Cables</b>	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
<b>I/O Shield</b>	MCP-260-00073-0N	1	Standard I/O shield for X9/X10 I/O MB, no EMI Gasket, RoHS/REACH, PBF