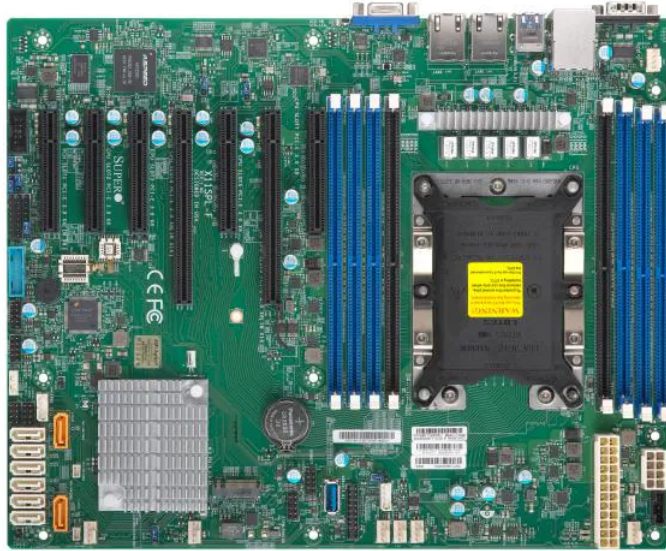


X11SPL-F



VROC support

Key Features



1. 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors, Single Socket LGA-3647 (Socket P) supported, CPU TDP supports Up to 165W TDP

2. Intel® C621 Chipset

3. Up to 2TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-2933MHz, in 8 DIMM slots; Up to 1TB Intel Optane DC Persistent Memory in memory mode (Cascade Lake Only)

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

5. M.2 NGFF connector
 - M.2 Interface:** PCI-E 3.0 x4 and SATA
 - Form Factor: 2280, 22110
 - Key: M-Key

6. 2 GbE LAN ports

7. 8 SATA3 (6Gbps) ports

8. I/O: 1 VGA, 2 COM, TPM header

9. 2 SuperDOM with built-in power

10. 5 USB 3.0 (2 rear, 1 Type-A, 2 via header), 8 USB 2.0 (2 rear, 6 via headers)

Specifications

Product SKUs

- | | |
|---------------------|--|
| MBD-X11SPL-F | <ul style="list-style-type: none"> X11SPL-F |
|---------------------|--|

Physical Stats

- | | |
|--------------------|--|
| Form Factor | <ul style="list-style-type: none"> ATX |
| Dimension | <ul style="list-style-type: none"> 12" x 9.6" (30.48cm x 24.38cm) |

Processor

- | | |
|-------------|---|
| CPU | <ul style="list-style-type: none"> 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors Single Socket LGA-3647 (Socket P) supported, CPU TDP supports Up to 165W TDP |
| Core | <ul style="list-style-type: none"> Up to 28 cores |
| Note | <ul style="list-style-type: none"> BIOS version 3.0a or above is required to support 2nd Generation Intel Xeon Scalable Processors-SP |

System Memory

- | | |
|------------------------|---|
| Memory Capacity | <ul style="list-style-type: none"> 8 DIMM slots Up to 2TB 3DS ECC LRDIMM, DDR4-2933MHz; Up to 2TB 3DS ECC RDIMM, DDR4-2933MHz Up to 1TB Intel Optane DC Persistent Memory in memory mode (Cascade Lake Only) |
| Memory Type | <ul style="list-style-type: none"> 2933/2666/2400/2133MHz ECC DDR4 LRDIMM (3DS), RDIMM (3DS) |
| DIMM Sizes | <ul style="list-style-type: none"> LRDIMM: 32GB, 64GB, 128GB RDIMM: 8GB, 16GB, 32GB, 64GB |
| Memory Voltage | <ul style="list-style-type: none"> 1.2V |
| Error Detection | <ul style="list-style-type: none"> Corrects single-bit errors |

On-Board Devices

- | | |
|----------------------------|--|
| Chipset | <ul style="list-style-type: none"> Intel® C621 |
| SATA | <ul style="list-style-type: none"> Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10 |
| IPMI | <ul style="list-style-type: none"> ASPEED AST2500 |
| Graphics | <ul style="list-style-type: none"> ASPEED AST2500 BMC |
| Network Controllers | <ul style="list-style-type: none"> Dual LAN with 1GbE with Intel® I210 |

Input / Output

- | | |
|-------------|---|
| SATA | <ul style="list-style-type: none"> 8 SATA3 (6Gbps) port(s) |
| LAN | <ul style="list-style-type: none"> 2 RJ45 Gigabit Ethernet LAN ports |

Expansion Slots

- | | |
|--------------|---|
| PCI-E | <ul style="list-style-type: none"> 2 PCI-E 3.0 x8 (in x16 slot), 4 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot) |
| M.2 | <ul style="list-style-type: none"> M.2 Interface: PCI-E 3.0 x4; SATA Form Factor: 2280, 22110 Key: M-Key |

System BIOS

- | | |
|----------------------|---|
| BIOS Type | <ul style="list-style-type: none"> AMI UEFI |
| BIOS Features | <ul style="list-style-type: none"> ACPI 6.0 RTC (Real Time Clock) Wakeup SMBIOS 3.0 or later |

Management

- | | |
|-----------------------------|---|
| Software | <ul style="list-style-type: none"> SuperDoctor® 5, NMI, SUM, KVM with dedicated LAN, SPM, Intel® Node Manager, IPMI2.0, Watchdog |
| Power Configurations | <ul style="list-style-type: none"> Power-on mode for AC power recovery, ACPI Power Management |

PC Health Monitoring

- | | |
|-----------------------|---|
| Voltage | <ul style="list-style-type: none"> VBAT, Supports system management utility, Monitors CPU voltages, HT, Chassis intrusion header, 3.3V standby, +5V standby, +5V, +3.3V, +12V, +1.8V, 7-fan status |
| LED | <ul style="list-style-type: none"> UID/Remote UID Suspend static indicator LED CPU / System Overheat LED |
| Temperature | <ul style="list-style-type: none"> CPU thermal trip support PECI |
| FAN | <ul style="list-style-type: none"> 7x 4-pin fan headers (up to 7 fans) System level control PWM fan speed control Fan speed control Overheat LED indication |
| Other Features | <ul style="list-style-type: none"> WOL, UID, RoHS, M.2 NGFF connector, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, ACPI power management |

Operating Environment

- | | |
|--|--|
| Operating Temperature Range | <ul style="list-style-type: none"> 0°C - 50°C (32°F - 122°F) |
| Non-Operating Temperature Range | <ul style="list-style-type: none"> -40°C - 70°C (-40°F - 158°F) |

USB	<ul style="list-style-type: none">▪ 3 USB 3 port(s) (1 Type A; 2 via header)▪ 8 USB 2.0 port(s) (2 rear; 6 via header)▪ 2 USB 3.0 port(s) (2 rear)
Video Output	<ul style="list-style-type: none">▪ 1 VGA port(s)
Serial Port	<ul style="list-style-type: none">▪ 2 COM Port(s) (1 header; 1 rear)
DOM	<ul style="list-style-type: none">▪ 2 SATA DOM (Disk on Module) power connector support
TPM	<ul style="list-style-type: none">▪ 1 TPM Header

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)

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SPL-F	1	X11SPL-F Motherboard
I/O Cables	CBL-0044L • <i>eStore</i>	2	57.5 cm SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N • <i>eStore</i>	1	STD I/O Shield for X11SPL-F with EMI Gasket

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SPL-F	1	X11SPL-F Motherboard
I/O Cables	CBL-0044L • <i>eStore</i>	6	57.5 cm SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N • <i>eStore</i>	1	STD I/O Shield for X11SPL-F with EMI Gasket
QRG	MNL-1950-QRG	1	Motherboard Quick Reference Guide

Optional Parts List			
Name	Part Number	Qty	Description
TPM security module	<u>AOM-TPM-9671H</u>	--	SPI capable TPM 1.2 with Infineon 9670 controller with horizontal form factor SPI capable TPM 2.0 with Infineon 9670 controller with horizontal form factor SPI capable TPM 1.2 with Infineon 9670 controller with vertical form factor SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor
	<u>AOM-TPM-9670H</u>	--	
	<u>AOM-TPM-9671V</u>	--	
	<u>AOM-TPM-9670V</u>	--	

Chassis (Optimized for X11SPL-F)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
	<u>SC113MFAC2-605CB</u> <u>SC813MFTQC-R407CB</u> <u>SC515-R407</u> <u>SC514-R407C</u> <u>SC512F-350B1</u> <u>SC515-350</u> <u>SC113MFAC2-R606CB</u> <u>SC113MFAC2-341CB</u> <u>SC813MFTQC-350CB2</u>	<u>SC213LT-600LPB</u> <u>SC823TQC-653LPB</u> <u>SC825TQC-R740LPB</u> <u>SCLA25TQC-R609LP</u> <u>SC825MBTQC-R802LPB</u> <u>SC823MTQC-R802LPB</u> <u>SC213A-R740LPB</u> Heatsink:SNK-P0068APS4	<u>SC833T-653B</u>		<u>SC842TQC-668B</u>

● = Most optimized Chassis for SuperServer Configuration

Blue color = Compatible

Green color = Global SKU & Compatible

Red dot & green color = Optimized + Global SKU

Server (Optimized for X11SPL-F)

Server Name
<u>SSG-5049P-E1CR45H</u>
<u>SSG-5049P-E1CR45L</u>

