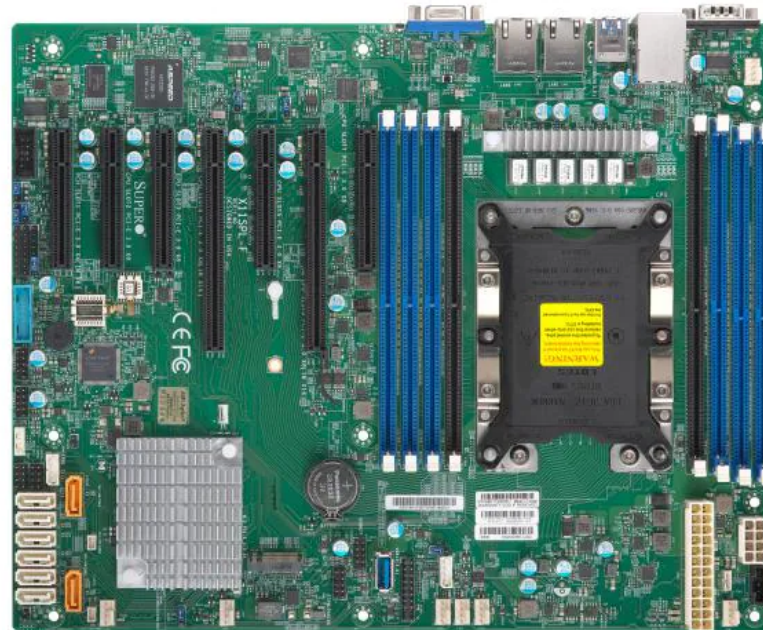


# X11SPL-F

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**VROC support**

## Key Features

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

Intel® C621 Chipset

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)

Expansion slots:

2 PCIe 3.0 x8 (in x16),

4 PCIe 3.0 x8,

1 PCIe 3.0 x4 (in x8)

M.2 NGFF connector

**M.2 Interface:** PCIe 3.0 x4 and SATA

Form Factor: 2280, 22110

Key: M-Key

2 GbE LAN ports

8 SATA3 (6Gbps) ports

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

2 SuperDOM with built-in power

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

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## Physical Stats

### Form Factor

ATX

### Dimension

12" x 9.6" (30.48cm x 24.38cm)

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## Processor

### CPU

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

Up to 28 cores

### Note

BIOS version 3.0a or above is required to support 2nd Generation Intel Xeon Scalable Processors-SP

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## System Memory

### Memory Capacity

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

2933/2666/2400/2133MHz ECC DDR4 LRDIMM (3DS), RDIMM (3DS)

### DIMM Sizes

LRDIMM: 32GB, 64GB, 128GB  
RDIMM: 8GB, 16GB, 32GB, 64GB

### Memory Voltage

1.2V

### Error Detection

Corrects single-bit errors

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## On-Board Devices

### Chipset

Intel® C621

### SATA

Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10

## Expansion Slots

### PCIe

2 PCIe 3.0 x8 (in x16 slot),  
4 PCIe 3.0 x8,  
1 PCIe 3.0 x4 (in x8 slot)

### M.2

M.2 Interface: PCIe 3.0 x4; SATA  
Form Factor: 2280, 22110  
Key: M-Key

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## System BIOS

### BIOS Type

AMI UEFI

### BIOS Features

ACPI 6.0  
RTC (Real Time Clock) Wakeup  
SMBIOS 3.0 or later

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## Management

### Software

SuperDoctor® 5, NMI, SUM, KVM with dedicated LAN, SPM, Intel® Node Manager, IPMI2.0, Watchdog

### Power Configurations

Power-on mode for AC power recovery, ACPI Power Management

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## PC Health Monitoring

### Voltage

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

UID/Remote UID  
Suspend static indicator LED  
CPU / System Overheat LED

### Temperature

CPU thermal trip support  
PECI

### FAN

7x 4-pin fan headers (up to 7 fans)  
System level control  
PWM fan speed control  
Fan speed control  
Overheat LED indication

**IPMI**

ASPEED AST2500

**Graphics**

1 ASPEED AST2500 BMC port(s)

**Network Controllers**

Dual LAN with 1GbE with Intel® I210

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**Input / Output****SATA**

8 SATA3 (6Gbps) port(s)

**LAN**

2 RJ45 Gigabit Ethernet LAN ports

**USB**

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**

1 VGA port(s)

**Serial Port**

2 COM Port(s) (1 header; 1 rear)

**DOM**

2 SATA DOM (Disk on Module) power connector support

**TPM**

1 TPM Header

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**Other Features**

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

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**Operating Environment****Operating Temperature Range**

0°C - 50°C (32°F - 122°F)

**Non-Operating****Temperature Range**

-40°C - 70°C (-40°F - 158°F)

**Operating Relative****Humidity Range**

8% - 90% (non-condensing)

**Non Operating Relative****Humidity Range**

5% - 95% (non-condensing)

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## Parts List

### Standard Parts (Bulk Package)

**I/O Cables**

Part Number	CBL-0044L • <a href="#">eStore</a>
Qty	2
Description	57.5 cm SATA FLAT S-S PBF

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**I/O Shield**

Part Number	MCP-260-00042-0N • <a href="#">eStore</a>
Qty	1
Description	STD I/O Shield for X11SPL-F with EMI Gasket

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### Standard Parts (Retail Package)

**I/O Cables**

Part Number	CBL-0044L • <a href="#">eStore</a>
Qty	6

Description 57.5 cm SATA FLAT S-S PBF

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I/O Shield

Part Number MCP-260-00042-0N • [eStore](#)

Qty 1

Description STD I/O Shield for X11SPL-F with EMI Gasket

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QRG

Part Number MNL-1950-QRG

Qty 1

Description Motherboard Quick Reference Guide

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### Optional Parts

TPM security module

Part Number	AOM-TPM-9671H	AOM-TPM-9670H	AOM-TPM-9671V	AOM-TPM-9670V
Qty	--	--	--	--
Description	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

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