

X11SPL-F



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 PCI-E 3.0 x8 (in x16),
4 PCI-E 3.0 x8,
1 PCI-E 3.0 x4 (in x8)

M.2 NGFF connector
M.2 Interface: PCI-E 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)

Product SKUs

MBD-X11SPL-F	■ X11SPL-F
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Physical Stats

Form Factor	■ ATX
Dimension	■ 12" x 9.6" (30.48cm x 24.38cm)

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

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

On-Board Devices

Chipset	■ Intel® C621
SATA	■ Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	■ ASPEED AST2500
Graphics	■ ASPEED AST2500 BMC
Network Controllers	■ Dual LAN with 1GbE with Intel® I210

Expansion Slots

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

System BIOS

BIOS Type	■ AMI UEFI
BIOS Features	■ ACPI 6.0 ■ RTC (Real Time Clock) Wakeup ■ SMBIOS 3.0 or later

Management

Software	■ SuperDoctor® 5, NMI, <u>SUM</u> , KVM with dedicated LAN, <u>SPM</u> , Intel® Node Manager, <u>IPMI2.0</u> , Watchdog
Power Configurations	■ Power-on mode for AC power recovery, ACPI Power Management

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
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

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 <u>DOM</u> (Disk on Module) power connector support
TPM	■ 1 TPM Header

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)

Parts List (Bulk Package)

Name	Part Number	Qty	Description
Motherboard	MBD-X11SPL-F	1	X11SPL-F Motherboard
I/O Cables	CBL-0044L • eStore	2	57.5 cm SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N • eStore	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 • eStore	6	57.5 cm SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N • eStore	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	AOM-TPM-9671H	--	SPI capable TPM 1.2 with Infineon 9670 controller with horizontal form factor
	AOM-TPM-9670H	--	
	AOM-TPM-9671V	--	SPI capable TPM 2.0 with Infineon 9670 controller with horizontal form factor
	AOM-TPM-9670V	--	
			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

Chassis (Optimized for X11SPL-F)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
	SC113MFAC2-605CB SC813MFTQC-R407CB SC515-R407 SC514-R407C SC512F-350B1 SC515-350 SC113MFAC2-R606CB SC113MFAC2-341CB SC813MFTQC-350CB2	SC213LT-600LPB SC823TQ-653LPB SC825TQC-R740LPB SCLA25TQC-R609LP SC825MBTQC-R802LPB SC823MTQC-R802LPB SC213A-R740LPB Heatsink: SNK-P0068APS4	SC833T-653B		SC842TQC-668B

 = 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>

