X11SPM-TPF



Embedded Ready 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 support Up to 165W TDP
- 2. Intel® C622 chipset
- 3. Up to 1.5TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 1.5TB 3DS ECC LRDIMM, DDR4-2933MHz, in 6 DIMM slots; Up to 1TB Intel Optane DC Persistent Memory in memory mode (Cascade Lake Only)
- 4. Expansion slots: 2 PCI-E 3.0 x16, 1 PCI-E 3.0 x8 (in x8)
- 5. M.2 NGFF connector

 M.2 Interface: PCI-E 3.0 x4

Form Factor: 2242, 2280

Key: M-Key

- 6. 2 10G SFP+
- 7. 12 SATA3 (6Gbps) via C622
- 8. Supports 12V DC power input
- 9. 5 USB 3.0 (2 rear, 1 Type-A, 2 via header), 6 USB 2.0 (2 rear, 4 via headers)
- 10. I/O: 1 VGA, 2 COM, 1 TPM header

Specifications

Expansion Slots

PCI-E	■ 2 PCI-E 3.0 x16, ■ 1 PCI-E 3.0 x8
M.2	M.2 Interface: PCI-E 3.0 x4Form Factor: 2280, 2242Key: M-Key

System BIOS

BIOS Type	AMI UEFI
BIOS Features	ACPI 6.0RTC (Real Time Clock) WakeupSMBIOS 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	 Power-on mode for AC power
Configurations	recovery, ACPI Power Management

PC Health Monitoring

Voltage	 VBAT, Supports system management utility, Monitors CPU voltages, Chassis intrusion header, 3.3V standby, +5V standby, +5V, +3.3V, +12V, +1.8V, 8 -fan status
LED	UID/Remote UIDSuspend static indicator LEDCPU / System Overheat LED
Temperature	CPU thermal trip supportPECI
FAN	 8x 4-pin fan headers (up to 8 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

Operating Environment

Operating Temperature Range	■ 0°C - 60°C (32°F - 140°F)
Non-Operating Temperature Range	■ -20°C - 60°C (-4°F - 140°F)

Product SKUs

ME	D-X1	1SP	M-
TD	_		

X11SPM-TPF

Physical Stats

Form Factor	■ microATX
Dimension	■ 9.6" x 9.6" (24.38cm 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

System Memory

Memory Capacity	 6 DIMM slots Up to 1.5TB 3DS ECC LRDIMM, DDR4-2933MHz; Up to 1.5TB 3DS ECC RDIMM, DDR4-2933MHz
Memory Type	 2933/2666/2400/2133MHz ECC DDR4 LRDIMM (3DS), RDIMM (3DS)
DIMM Sizes	LRDIMM: 32GB, 64GB, 128GBRDIMM: 8GB, 16GB, 32GB, 64GB
Memory Voltage	■ 1.2V
Error Detection	■ Corrects single-bit errors

On-Board Devices

Chipset	■ Intel® C622
SATA	 Intel® C622 controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	■ ASPEED AST2500
Graphics	■ ASPEED AST2500 BMC
Network Controllers	 Dual LAN with 10G SFP+ with Intel® X722 + Inphi CS4227

Input / Output

SATA	■ 12 SATA3 (6Gbps) port(s)
LAN	■ 2 10G SFP+ LAN ports
USB	 3 USB 3 port(s) (1 Type A; 2 via header) 6 USB 2.0 port(s) (4 via header; 2 rear) 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 Relative Humidity Range	■ 10% - 85% (non-condensing)
Non Operating Relative Humidity Range	■ 10% - 95% (non-condensing)

Parts List

Parts List (Bulk Package)				
Name	Part Number	Qty	Description	
Motherboard	MBD-X11SPM-TPF	1	X11SPM-TPF Motherboard	
I/O Cables	CBL-0044L • @Store	2	57.5 cm SATA FLAT S-S PBF	
I/O Shield	MCP-260-00109-0N • @Store	1	STD I/O Shield for X11SPM-TPF with EMI Gasket	

Parts List (Retail Package)				
Name	Part Number	Qty	Description	
Motherboard	MBD-X11SPM-TPF	1	X11SPM-TPF Motherboard	
I/O Cables	CBL-0044L • €Store	4	57.5 cm SATA FLAT S-S PBF	
I/O Shield	MCP-260-00109-0N • @Store	1	STD I/O Shield for X11SPM-TPF with EMI Gasket	
QRG	MNL-1939-QRG	1	Motherboard Quick Reference Guide	

Optional Parts List					
Name	Part Number	Qty	Description		
1U I/O Shield	MCP-260-00114-0N		1U I/O Shield for X11SPM-TPF with EMI Gasket		
TPM security module	AOM-TPM-9671V 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 X11SPM-TPF)

Embedded 1U Compact	20	3U	Mid/Mini- Tower	4U/Tower
SC113MI 605CB ■ SC813MI R407CB SC515-R SC514-R SC512F- ■ SC813MI 350CB2 SC515-3 SC113MI R606CB SC113MI 341CB	600LPB 5C823TQ- 653LPB 8407 8C825TQC- 8407C 8740LPB 350B1 5C825MBTQC- 8802LPB 5C823MTQC- 8802LPB 5C823MTQC- 8802LPB 5C213A- 8740LPB	SC833T-653B Heatsink:SNK- P0068APS4		<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

https://www.supermicro.com/en/products/motherboard/x11spm-tpf