X11SPD-F (For SuperServer Only)



MicroCloud

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® C621
- 3. Up to 1TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 512GB ECC LRDIMM, DDR4-2933MHz, in 4 DIMM slots
- 4. 1 PCI-E 3.0 x8 (Micro Low Profile), 1 PCI-E 3.0 x16

M.2 Interface: 2 SATA/PCI-E 3.0 x4

M.2 Form Factor: 2280 M.2 Key: M-Key

- 5. Intel® C621 controller for 2 SATA3 (6 Gbps) ports;
- 6. 1 VGA port, via KVM Connector
- 7. Single LAN with Realtek RTL8211E PHY (dedicated IPMI) via Backplane

Specifications

Product SKUs		Expansion Slots		
MBD-X11SPD-F	■ X11SPD-F	PCI-E	1 PCI-E 3.0 x8 (Micro Low Profile),1 PCI-E 3.0 x16	
Physical Stats		M.2	M.2 Interface: 2 SATA/PCI-E 3.0 x4Form Factor: 2280	
Form Factor	Proprietary		■ Key: M-Key	
Dimension	■ 4.66" x 18.5" (11.84cm x 46.99cm)	System BIOS		
Processor		BIOS Type	■ 256MB UEFI	
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 	Management Software	 SuperDoctor® 5, NMI, <u>SUM</u>, KVM with dedicated LAN, <u>IPMI2.0</u>, Watchdog, IPMI (Intelligent Platforn 	
Core	■ Up to 24 cores		Management Interface) v2.0 with	
Note	■ BIOS version 3.2 or above is		KVM support	
	required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)	System Management Software	 IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support, SUM 	
System Memory Memory Capacity	■ 4 DIMM slots ■ Up to 512GB ECC LRDIMM,	Power Configurations	Power-on mode for AC power recovery, ACPI Power Management, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss	
	DDR4-2933MHz; Up to 1TB 3DS ECC RDIMM, DDR4-2933MHz	DO Harikh Marika	·	
Memory Type	■ 2933/2666/2400/2133MHz ECC DDR4 LRDIMM, RDIMM (3DS)	Voltage VBAT, System temperature, Syst		
DIMM Sizes	 8GB, 16GB, 32GB, 64GB, 128GB LRDIMM: 32GB, 64GB, 128GB RDIMM: 8GB, 16GB, 32GB, 64GB 	-	level control, Supports system management utility, Monitors CPU voltages, Memory, HT, +5V standby +5V, +3.3V, +12V, +1.8V, Monitors	
Memory Voltage	■ 1.2V		for CPU Cores, Memory Voltages	
Error Detection	Corrects single-bit errorsDetects double-bit errors (using ECC memory)	LED	 UID/Remote UID Power LED BMC/IPMI Heartbeat LED CPU / System Overheat LED 	
On-Board Devices		Temperature	 Monitoring for CPU and chassis environment CPU thermal trip support 	
Chipset	∎ Intel® C621		 Thermal Monitor 2 (TM2) support 	
SATA	 Intel® C621 controller for 2 SATA3 (6 Gbps) ports 		■ PECI ■ I2C temperature sensing logic	
IPMI	ASPEED AST2500IPMI 2.0 with virtual media over LAN and KVM-over-LAN support	FAN	 Thermal control tachometer fan connectors, System level control, PWM fan speed control, Fan speed control, Pulse Width Modulated 	
Graphics	ASPEED AST2500 BMCVia KVM Connector		(PWM) fan connectors, Overheat LED indication	
Network Controllers	■ Single LAN with Realtek RTL8211E PHY (dedicated IPMI), via Backplane	Other Features	 WOL, UID, System level control, RoHS, M.2 NGFF connector, Control of power-on for recovery from AC power loss 	
Input / Output				
	0.04740 (001) (1)	Operating Enviror	nment	
SATA	■ 2 SATA3 (6Gbps) port(s)			

LAN	1 RJ45 Dedicated IPMI LAN port	
USB	■ 2 USB 2.0 port(s) (2 rear) ■ USB 2.0 via KVM Connector	
Video Output	■ 1 VGA port(s)	
Serial Port	1 fast UART 16550 Serial1 COM Port(s) (1 rear), Via KVM Connector	
TPM	■ 1 TPM Header	
Others	1 KVM Connector for VGA1 USB 0 and COM Ports	

Operating Temperature Range	■ 0°C - 50°C (32°F - 122°F)
Non-Operating Temperature Range	■ -20°C - 60°C (-4°F - 140°F)
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-X11SPD-F	1	X11SPD-F Motherboard		

Server (Optimized for X11SPD-F)

	Server Name	
SYS-5039MP-H8TNR		

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