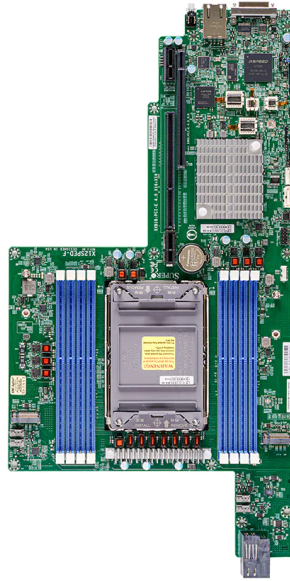


X12SPED-F



Key Features

1. 3rd Gen Intel® Xeon® Scalable processors, Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP
2. Intel® C621A
3. Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz
Up to 2TB Intel® Optane™ Persistent Memory 200 Series, in 8 DIMM slots
4. 1 PCI-E 4.0 x16 (LP)
2 PCI-E 4.0 x16 (FHHL)
5. 1 VGA Port; 2 USB 2.0 Ports; 1 Serial Port via KVM Connector.
6. **M.2 Interface:** 2 PCI-E 4.0 x4, **M.2 Form Factor:** 2280/22110
7. 1 RJ-45 GbE dedicated IPMI LAN with Intel® Ethernet Controller I210-AT

Specifications

Product SKUs

- **MBD-X12SPED-F** ■ X12SPED-F

Physical Stats

- **Form Factor** ■ Proprietary
- **Dimension** ■ 16.36" x 8.526" (415.57cm x 216.56cm)

Processor

- **CPU** ■ 3rd Gen Intel® Xeon® Scalable processors
■ Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP
- **Core** ■ Up to 40 cores

System Memory

- **Memory Capacity** ■ 8 DIMM slots
■ Up to 2TB Intel® Optane™ Persistent Memory 200 Series
■ Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz
- **Memory Type** ■ 3200/2933/2666MHz ECC , DDR4 LRDIMM (3DS), RDIMM (3DS)
- **DIMM Sizes** ■ DCPMM: 64GB, 128GB, 256GB
■ LRDIMM: 64GB, 128GB, 256GB
■ RDIMM: 8GB, 16GB, 32GB, 64GB, 128GB, 256GB
- **Memory Voltage** ■ 1.2V
- **Error Detection** ■ Corrects single-bit errors

On-Board Devices

- **Chipset** ■ Intel® C621A
- **IPMI** ■ ASPEED AST2600 BMC
- **Network Controllers** ■ Single LAN with Intel® Ethernet Controller I210-AT

Input / Output

- **USB** ■ 2 USB 2.0 port(s) (2 type A Via KVM connector)
- **Video Output** ■ 1 VGA port(s) Via KVM connector
- **Serial Port** ■ 1 COM Port(s) (1 Serial Port Via KVM connector)
- **TPM** ■ 1 TPM Header & Chip both

Expansion Slots

- **PCI-E** ■ 1 PCI-E 4.0 x16 (LP),
■ 2 PCI-E 4.0 x16 (FHHL)
- **M.2** ■ M.2 Interface: 2 PCI-E 4.0 x4
■ Form Factor: 2280/22110
■ Key: M-Key

System BIOS

- **BIOS Type** ■ 32MB SPI Flash with AMI BIOS
- **BIOS Features** ■ ACPI 6.2
■ UEFI 2.8
■ SMBIOS 2.8
■ SMBIOS 3.3 or later
■ Plug and Play (PnP)
■ PCI FW 3.2

Management

- **Software** ■ SuperDoctor® 5, NMI, SUM, KVM with dedicated LAN, SPM, Intel® Node Manager, SSM, Watchdog, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support
- **System Management Software** ■ IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support
- **Power Configurations** ■ Power-on mode for AC power recovery, ACPI Power Management

PC Health Monitoring

- **Voltage** ■ VBAT, Supports system management utility, Monitors CPU voltages, Chassis intrusion header, 4 -fan status, 3.3V standby, +5V standby, +5V, +3.3V, +12V, +1.8V
- **LED** ■ UID/Remote UID
■ Power LED
■ BMC/IPMI Heartbeat LED
■ Power fail / Fan fail / Overheat LED Indication

- **Temperature** ■ CPU thermal trip support

- **FAN** ■ 4x 4-pin fan headers (up to 4 fans)
■ System level control
■ PWM fan speed control
■ 4 fans with tachometer monitoring

- **Other Features** ■ RoHS, Node Manager Support, 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 - 55°C (32°F - 131°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

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X12SPED-F	1	X12SPED-F Motherboard

Server (Optimized for X12SPED-F)

Server Name
<u>SYS-210SE-31D</u>
<u>SYS-210SE-31A</u>

