X12SPED-F



SuperEdge 2U/3Node Short Depth 3 PCIe Slots

Key Features

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

Intel® C621A

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

1 PCIe 4.0 x16 (LP)

2 PCIe 4.0 x16 (FHHL)

1 VGA Port; 2 USB 2.0 Ports; 1 Serial Port via KVM Connector.

M.2 Interface: 2 PCle 4.0 x4,**M.2 Form Factor:** 2280/22110

1 RJ-45 GbE dedicated IPMI LAN with Intel® Ethernet Controller I210-AT

Optimized Servers

SYS-210SE-31D

SYS-210SE-31A

Specifications

Product SKUs MBD-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

3200/2933/2666 MT/s 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

PCIe

1 PCIe 4.0 x16 (LP), 2 PCIe 4.0 x16 (FHHL)

M.2

M.2 Interface: 2 PCIe 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

Redfish API, Supermicro Server Manager (SSM),

<u>Supermicro Power Manager (SPM), Supermicro Update</u> <u>Manager (SUM), SuperDoctor® 5, Super Diagnostics</u>

Offline, KVM with dedicated LAN, IPMI 2.0

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

Security

Hardware

Trusted Platform Module (TPM) 2.0

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