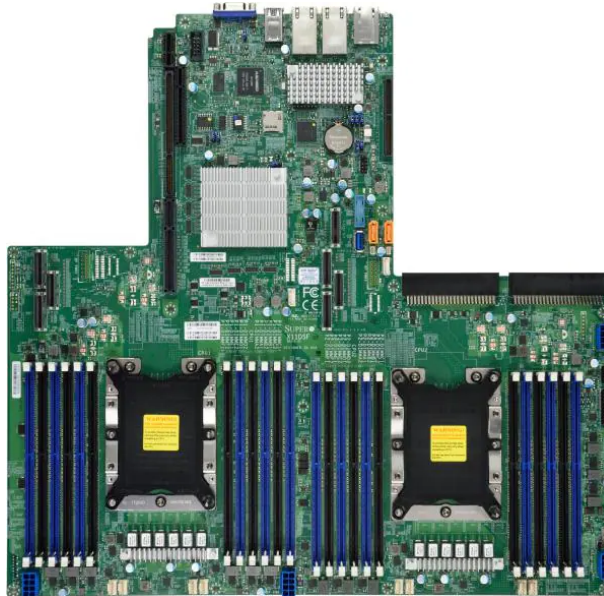# X11DSF-E (For SuperServer Only)

24 DIMMs
NVMe
3 UPI

Key Features

2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors

Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s

Intel® C627

Up to 6TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 6TB 3DS ECC LRDIMM, DDR4-2933MHz, in 24 DIMM slots;

Up to 6TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)

1 PCIe 3.0 x32 Left Riser Slot,

2 PCIe 3.0 x4 (Low Profile),

4 PCIe 3.0 x16

Dual LAN with 10GBase-T with Intel® X550

Intel® C627 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10

1 VGA D-Sub Connector port

Optimized Servers

SSG-1029P-NES32R

Specifications

Product SKUs
MBD-X11DSF-E

Physical Stats
Form Factor
Proprietary
Dimension
16.337" x 17" (41.5cm x 43.18cm)

Processor
CPU
2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors
Dual Socket LGA-3647 (Socket P) supported, CPU TDP supports Up to 205W TDP, 3 UPI up to 10.4 GT/s
Note
*2933 MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro

System Memory
Memory Capacity
24 DIMM slots
Up to 6TB 3DS ECC LRDIMM, DDR4-2933MHz; Up to 6TB 3DS ECC RDIMM, DDR4-2933MHz
Up to 6TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
Memory Type
2666/2400/2133 MT/s ECC DDR4 LRDIMM (3DS), RDIMM (3DS)
DIMM Sizes
LRDIMM: 64GB, 128GB
RDIMM: 32GB, 64GB, 128GB
Memory Voltage
1.2V
Error Detection
Corrects single-bit errors
Detects double-bit errors (using ECC memory)

On-Board Devices
Chipset
Intel® C627
SATA
Intel® C627 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI
ASPEED AST2500
Network Controllers
Dual LAN with 10GBase-T with Intel® X550

Input / Output
USB
3 USB 3.2 Gen1 port(s) (2 via header; 1 type A)
2 USB 3.0 port(s) (2 rear)
Video Output
1 VGA D-Sub Connector port(s)
Serial Port
1 COM Port(s) (1 header)
DOM
2 SuperDOM (Disk on Module) port with build power
TPM
1 TPM Header

Expansion Slots
PCIe
1 PCIe 3.0 x32 Left Riser Slot,
2 PCIe 3.0 x4 (Low Profile),
4 PCIe 3.0 x16

System BIOS
BIOS Type
AMI UEFI

Management
Software
SuperDoctor® 5, NMI, SUM, KVM with dedicated LAN, SPM, Intel® Node Manager, SSM, IPMI2.0, 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

PC Health Monitoring
Voltage
VBAT, Monitors CPU voltages, Chipset Voltage, +5V standby, +5V, +3.3V, +12V, +1.8V, +1.5V, Memory Voltages
LED
UID/Remote UID
CPU / System Overheat LED
FAN
8x 4-pin fan headers (up to 8 fans)
Fan speed control
Pulse Width Modulated (PWM) fan connectors
Overheat LED indication
8x fans with tachometer monitoring
Other Features
WOL, UID, System level control, RoHS, Node Manager Support, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, Chassis intrusion header, Chassis intrusion detection, RoHS, Halogen Free, Intel® QuickAssist Technology, Innovation Engine

Operating Environment
Operating Temperature Range
10°C - 35°C (50°F - 95°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

Optional Parts

TPM security module (optional, not included)

Part Number	AOM-TPM-9670V
Qty	1
Description	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor