

# X11DPFR-SN (For SuperServer Only)

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## 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 165W TDP, 2 UPI up to 10.4 GT/s  
Intel® C621

Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 3TB 3DS ECC LRDIMM, DDR4-2933MHz

Or 2TB DCPMM, DDR4-2666MHz, in 12 DIMM slots;

Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only);

1 PCIe 3.0 x16 Left Riser Slot,

1 PCIe 3.0 x16 Right Riser Slot,

1 PCIe 3.0 x16 connector for SMC add-on cards

1 PCIe 3.0 x16 SIOM LAN Networking Slot

**M.2 Interface:** PCIe 3.0 x4

**M.2 Form Factor:** 2260, 2280, 22110

**M.2 Key:** M-Key,

4 NVMe Internal Port(s)

Intel® C621 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10

1 VGA port

Single LAN with

Networking options provided via SIOM module

## Optimized Servers

[SYS-F619P2-RC0](#)

[SYS-F619P2-RC1](#)

[SYS-F619P2-RTN](#)

[SYS-F629P3-RC0B](#)

[SYS-F629P3-RC1B](#)

[SYS-F629P3-RTBN](#)

## Specifications

**Product SKUs****MBD-X11DPFR-SN****Physical Stats****Form Factor**

Proprietary FatTwin

**Dimension**

8.53" x 19.66" (21.67cm x 49.94cm)

**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 165W TDP, Dual UPI up to 10.4 GT/s

**Core**

Up to 28 cores

**Note**

BIOS version 3.0a or above is required to support 2nd Generation Intel Xeon Scalable Processors-SP

BIOS version 3.0a or above is required to support 2nd Generation Intel Xeon Scalable Processors-SP

BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

**System Memory****Memory Capacity**

12 DIMM slots

Up to 2TB Intel® Optane™ Persistent Memory 200 Series, DDR4-2666MHz

Up to 3TB 3DS ECC LRDIMM, DDR4-2933MHz; Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz

Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)

**Memory Type**

2933/2666/2400/2133 MT/s ECC DDR4 LRDIMM (3DS), RDIMM (3DS)

**DIMM Sizes**

LRDIMM: 64GB

RDIMM: 64GB

**Memory Voltage**

1.2V

**Error Detection**

Corrects single-bit errors

Detects double-bit errors (using ECC memory)

**On-Board Devices****Chipset**

Intel® C621

**SATA**

Intel® C621 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10

**IPMI**

ASPEED AST2500

**Graphics**

1 ASPEED AST2500 BMC port(s)

**Network Controllers**

Single LAN, Networking options provided via SIOM module

**Input / Output****SATA**

8 SATA3 (6Gbps) port(s)

**LAN**

1 RJ45 Dedicated IPMI LAN port

**USB**

2 USB 3.0 port(s) (2 rear)

**Video Output**

1 VGA port(s)

**DOM**

2 SuperDOM (Disk on Module) ports

**Expansion Slots****PCIe**

1 PCIe 3.0 x16 Left Riser Slot,

1 PCIe 3.0 x16 Right Riser Slot,

1 PCIe 3.0 x16 connector for SMC add-on cards

1 PCIe 3.0 x16 SIOM LAN Networking Slot

**M.2**

M.2 Interface: PCIe 3.0 x4

Form Factor: 22110, 2280, 2260

Key: M-Key

**System BIOS****BIOS Type**

AMI UEFI

**Management****Software**SuperDoctor® 5, **SUM**, KVM with dedicated LAN, **SPM**, Intel® NodeManager, **SSM**, Watchdog, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support**Power Configurations**

ACPI Power Management

**PC Health Monitoring****Voltage**

Monitors CPU voltages, Chipset Voltage, 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, +1.8V, Memory Voltages

**LED**

UID/Remote UID

BMC/IPMI Heartbeat LED

**Temperature**

Thermal Control for 3 Fan Connectors

Monitoring for CPU and chassis environment

CPU thermal trip support

**FAN**

3x 4-pin fan headers (up to 3 fans)

PWM fan speed control

**Other Features**

WOL, UID, RoHS, Node Manager Support, CPU thermal trip support for processor protection, Chassis intrusion detection, SDDC

**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)

**TPM**1 TPM Header

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## Parts List

### Optional Parts

**TPM security module (optional, not included)**

Part Number	AOM-TPM-9671H	AOM-TPM-9671V	AOM-TPM-9670V	AOM-TPM-9670H
Qty	1	1	1	1
Description	SPI capable TPM 1.2 with Infineon 9670 controller with horizontal form factor	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	SPI capable TPM 2.0 with Infineon 9670 controller with horizontal form factor

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