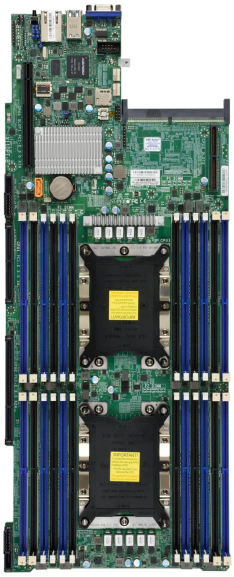
X11DPT-B (For SuperServer Only)



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, 2 UPI up to 10.4 GT/s

Intel® C621

Up to 6TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 6TB 3DS ECC LRDIMM, DDR4-2933MHz

Or 6TB DCPMM, DDR4-2666MHz, in 24 DIMM slots;

Up to 6TB 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 x24 Proprietary Slot (for Supermicro storage add-on card),

_x000D_ 1 PCIe 3.0 x16 SIOM LAN Networking Slot,

_x000D_ 1 PCIe 3.0 x8 Proprietary Slot (For M.2 add-on card)

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-2029BT-DNC0R

SYS-2029BT-HNC0R

SYS-2029BT-HNC1R

SYS-2029BT-HNR

SYS-2029BT-HNTR

SYS-2029BT-HTR

SYS-6029BT-DNC0R

SYS-6029BT-HNC0R

Specifications

Product SKUs
MBD-X11DPT-B

Physical Stats
Form Factor
Proprietary Twin
Dimension
7.62" x 18.86" (19.35cm x 47.9cm)

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, 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
24 DIMM slots
Up to 6TB Intel® Optane™ Persistent Memory 200 Series, DDR4-2666MHz
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
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)
USB
2 USB 3.0 port(s) (2 rear)
Video Output
1 VGA port(s)
DOM
1 SuperDOM (Disk on Module) power connector
TPM
1 TPM Header

Expansion Slots
PCIe
1 PCIe 3.0 x16 Left Riser Slot,
1 PCIe 3.0 x16 Right Riser Slot
1 PCIe 3.0 x24 Proprietary Slot (for Supermicro storage add-on card),
1 PCIe 3.0 x16 SIOM LAN Networking Slot,
1 PCIe 3.0 x8 Proprietary Slot (For M.2 add-on card)

System BIOS
BIOS Type
AMI UEFI

Management
Software
SuperDoctor® 5, SUM, KVM with dedicated LAN, SPM, Intel® Node Manager, SSM, IPMI2.0, Watchdog
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
Monitoring for CPU and chassis environment
CPU thermal trip support
FAN
2x 4-pin fan headers (up to 2 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)

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