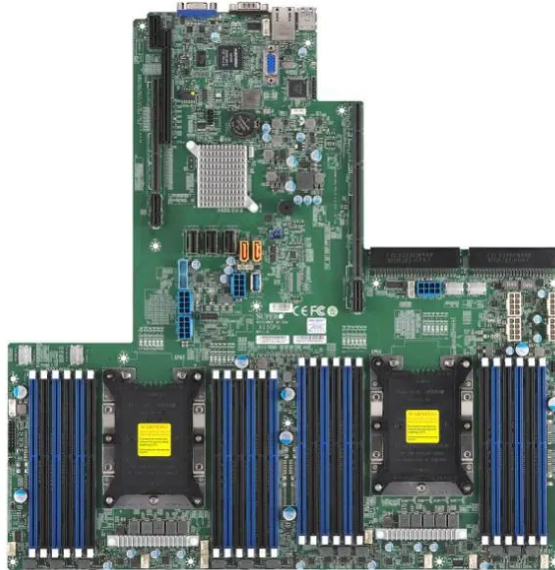


X11DPU (For SuperServer Only)



Ultra Series 24 DIMMs NVMe

Key Features

1. 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, 2 UPI up to 10.4 GT/s
2. Intel® C621
3. 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).
4. 1 PCI-E 3.0 x32 Left Riser Slot
1 PCI-E 3.0 x8 Right Riser Slot
1 PCI-E 3.0 x40 Ultra Riser Slot
4 PCI-E 3.0 NVMe x4 Internal Port(s)
5. Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10
6. 2 VGA D-Sub Connector ports

Specifications

Product SKUs

MBD-X11DPU ■ X11DPU

Physical Stats

Form Factor ■ Proprietary Ultra

Dimension ■ 17" x 16.8" (43.18cm x 42.67cm)

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 / 38.5MB Cache

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 ■ 2933/2666/2400/2133MHz ECC DDR4 LRDIMM (3DS), RDIMM (3DS)

DIMM Sizes ■ LRDIMM: 128GB
 ■ RDIMM: 64GB, 128GB

Memory Voltage ■ 1.2V

Error Detection ■ Corrects single-bit errors

On-Board Devices

Chipset ■ Intel® C621

SATA ■ Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10

IPMI ■ ASPEED AST2500
 ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
 ■ Support for Intelligent Platform Management Interface v.2.0

Graphics ■ ASPEED AST2500 BMC

Network Controllers ■ Networking options provided via Ultra Riser

Input / Output

SATA ■ 14 SATA3 (6Gbps) port(s)

USB ■ 3 USB 3.2 Gen1 port(s) (2 via header; 1 type A)
 ■ 2 USB 3.0 port(s) (2 rear)

Expansion Slots

PCI-E ■ 1 PCI-E 3.0 x32 Right Riser Slot,
 ■ 1 PCI-E 3.0 x8 Right Riser Slot,
 ■ 1 PCI-E 3.0 x40 Ultra Riser Slot

System BIOS

BIOS Type ■ 32MB AMI SPI Flash ROM

Management

Software ■ SuperDoctor® 5, NMI, [SUM](#), KVM with dedicated LAN, [SPM](#), Intel® Node Manager, [SSM](#), [IPMI2.0](#)

System Management Software ■ SuperDoctor 5, IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support, IPMICFG, IPMIView for Linux/Windows, SMCIPMITool, SSM, SUM, SPM

Power Configurations ■ ACPI Power Management

PC Health Monitoring

Voltage ■ VBAT, Supports system management utility, HT, Chassis intrusion header, +5V standby, +5V, +3.3V, +12V, +1.8V, 8 -fan status, 5+1 Phase-switching voltage regulator

Temperature ■ Thermal Control for 8 Fan Connectors

FAN ■ 8x 4-pin fan headers (up to 8 fans)
 ■ Status monitoring for speed control
 ■ Pulse Width Modulated (PWM) fan connectors
 ■ 8x fans with tachometer monitoring

Other Features ■ RoHS, Node Manager Support, CPU thermal trip support for processor protection, Chassis intrusion detection, SDDC, 4x 8-pin GPU power connectors

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)

Video Output	■ 2 VGA D-Sub Connector port(s)
Serial Port	■ 1 COM Port(s) (1 rear)
DOM	■ 2 SuperDOM (Disk on Module) port with build power
TPM	■ 1 TPM Header

Non Operating Relative Humidity Range	■ 5% - 95% (non-condensing)
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Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11DPU	1	X11DPU Motherboard

Server (Optimized for X11DPU)

Server Name
<u>SYS-1029U-E1CR25M</u>
<u>SYS-1029U-E1CR4</u>
<u>SYS-1029U-E1CR4T</u>
<u>SYS-1029U-E1CRT</u>
<u>SYS-1029U-E1CRTP</u>
<u>SYS-1029U-E1CRTP2</u>
<u>SYS-1029U-TN10RT</u>
<u>SYS-1029U-TR25M</u>
<u>SYS-1029U-TR4</u>
<u>SYS-1029U-TR4T</u>
<u>SYS-1029U-TRT</u>
<u>SYS-1029U-TRTP</u>
<u>SYS-1029U-TRTP2</u>
<u>SYS-2029U-E1CR25M</u>
<u>SYS-2029U-E1CR4</u>
<u>SYS-2029U-E1CR4T</u>
<u>SYS-2029U-E1CRT</u>
<u>SYS-2029U-E1CRTP</u>
<u>SYS-2029U-TN24R4T</u>
<u>SYS-2029U-TR25M</u>
<u>SYS-2029U-TR4</u>
<u>SYS-2029U-TR4T</u>
<u>SYS-2029U-TRT</u>
<u>SYS-2029U-TRTP</u>
<u>SYS-6019U-TN4R4T</u>
<u>SYS-6019U-TN4RT</u>
<u>SYS-6019U-TR25M</u>
<u>SYS-6019U-TR4</u>
<u>SYS-6019U-TR4T</u>
<u>SYS-6019U-TRT</u>
<u>SYS-6019U-TRTP</u>
<u>SYS-6019U-TRTP2</u>
<u>SYS-6029U-E1CR25M</u>
<u>SYS-6029U-E1CR4</u>
<u>SYS-6029U-E1CR4T</u>
<u>SYS-6029U-E1CRT</u>
<u>SYS-6029U-E1CRTP</u>
<u>SYS-6029U-TR25M</u>
<u>SYS-6029U-TR4</u>
<u>SYS-6029U-TR4T</u>
<u>SYS-6029U-TRT</u>
<u>SYS-6029U-TRTP</u>