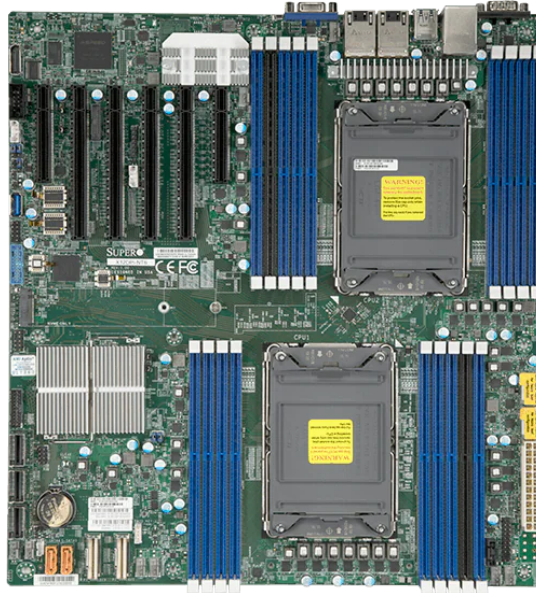


X12DPi-NT6



Key Features

1. 3rd Gen Intel® Xeon® Scalable processors
Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s
2. Intel® C621A
3. Up to 4TB RDIMM, DDR4-3200MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-3200MHz
Up to 4TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 18 DIMM slots P1-DIMMB2 and P2-DIMMB2 are reserved for Intel Optane Persistent Memory 200 series only.
4. 2 PCI-E 4.0 x8,
4 PCI-E 4.0 x16,
2 PCI-E 4.0 NVMe x8 Internal Port(s)
M.2 Interface: 1 PCI-E 4.0 x4
M.2 Form Factor: 2280/22110
M.2 Key: M-Key
5. Intel® C621A controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10
6. Dual LAN with 10GBase-T with Intel® X550
7. 2 VGA (1 rear bezel, 1 front panel) ports

Specifications

Product SKUs

MBD-X12DPI-NT6	<ul style="list-style-type: none"> X12DPI-NT6
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Physical Stats

Form Factor	<ul style="list-style-type: none"> E-ATX
Dimension	<ul style="list-style-type: none"> 12" x 13" (30.48cm x 33.02cm)

Processor

CPU	<ul style="list-style-type: none"> 3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s
Core	<ul style="list-style-type: none"> Up to 40 cores

System Memory

Memory Capacity	<ul style="list-style-type: none"> 18 DIMM slots Up to 4TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz Up to 4TB 3DS ECC LRDIMM, DDR4-3200MHz; Up to 4TB ECC RDIMM, DDR4-3200MHz P1-DIMMB2 and P2-DIMMB2 are reserved for Intel Optane Persistent Memory 200 Series only.
Memory Type	<ul style="list-style-type: none"> 3200/2933/2666MHz ECC DDR4 LRDIMM (3DS), RDIMM
DIMM Sizes	<ul style="list-style-type: none"> LRDIMM: 256GB RDIMM: 256GB
Memory Voltage	<ul style="list-style-type: none"> 1.2V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C621A
SATA	<ul style="list-style-type: none"> Intel® C621A controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	<ul style="list-style-type: none"> ASPEED AST2600 BMC
Network Controllers	<ul style="list-style-type: none"> Dual LAN with 10GBase-T with Intel® X550

Input / Output

SATA	<ul style="list-style-type: none"> 14 SATA3 (6Gbps) port(s)
LAN	<ul style="list-style-type: none"> 2 RJ45 10 Gigabit Ethernet LAN ports

Expansion Slots

PCI-E	<ul style="list-style-type: none"> 4 PCI-E 4.0 x16, 2 PCI-E 4.0 x8
M.2	<ul style="list-style-type: none"> M.2 Interface: 1 PCI-E 4.0 x4 Form Factor: 2280/22110 Key: M-Key

System BIOS

BIOS Type	<ul style="list-style-type: none"> AMI UEFI
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Management

Software	<ul style="list-style-type: none"> SuperDoctor® 5, SUM, KVM with dedicated LAN, SPM, Intel® Node Manager, SSM, IPMI2.0, Watchdog
System Management Software	<ul style="list-style-type: none"> IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support

PC Health Monitoring

Voltage	<ul style="list-style-type: none"> VBAT, System temperature, PCH temperature, Monitors CPU voltages, Memory temperature, CPU temperature, Chassis intrusion header, 3.3V standby, +5V standby, +5V, +3.3V, +12V, VRM temperature, Memory Voltages, LAN temperature, 8 -fan status
LED	<ul style="list-style-type: none"> UID/Remote UID Power LED BMC/IPMI Heartbeat LED
FAN	<ul style="list-style-type: none"> 8x 4-pin fan headers (up to 8 fans) PWM fan speed control
Other Features	<ul style="list-style-type: none"> WOL, UID, RoHS, Node Manager Support, Dual Cooling Zones, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, Chassis intrusion header, ATX Power connector, ACPI power management, SDDC, RoT, NCSI header

Operating Environment

Operating Temperature Range	<ul style="list-style-type: none"> 10°C - 35°C (50°F - 95°F)
Non-Operating Temperature Range	<ul style="list-style-type: none"> -40°C - 70°C (-40°F - 158°F)
Operating Relative Humidity Range	<ul style="list-style-type: none"> 8% - 90% (non-condensing)

USB	<ul style="list-style-type: none">▪ 7 USB 3.2 Gen1 port(s) (2 via header; 4 rear; 1 type A)▪ 2 USB 2.0 port(s) (2 via header)
Video Output	<ul style="list-style-type: none">▪ 2 VGA (1 rear bezel, 1 front panel) port(s)
Serial Port	<ul style="list-style-type: none">▪ 2 COM Port(s) (1 header; 1 rear)
TPM	<ul style="list-style-type: none">▪ 1 TPM Header

Non Operating Relative Humidity Range	<ul style="list-style-type: none">▪ 5% - 95% (non-condensing)
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Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X12DPi-NT6	1	X12DPi-NT6 Motherboard
CPU carrier	SKT-1205L-P4IC-FXC	2	CPU carrier for 3rd Gen Intel Xeon Scalable Processors
I/O Cables	CBL-0044L • eStore	2	57.5 cm SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N • eStore	1	STD I/O SHIELD

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X12DPi-NT6	1	X12DPi-NT6 Motherboard
CPU carrier	SKT-1205L-P4IC-FXC	2	CPU carrier for 3rd Gen Intel Xeon Scalable Processors
I/O Cables	CBL-0044L • eStore CBL-0476L • eStore	2 1	57.5 cm SATA FLAT S-S PBF IPASS to 4 SATA cable
I/O Shield	MCP-260-00042-0N • eStore	1	STD I/O SHIELD
Quick Reference Guide	MNL-2233-QRG	1	X12DPi-N(T)6 Quick Reference Guide

Optional Parts List			
Name	Part Number	Qty	Description
TPM security module (optional, not included)	AOM-TPM-9671H	1	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
	AOM-TPM-9671V	1	
	AOM-TPM-9670V	1	
	AOM-TPM-9670H	1	

Chassis (Optimized for X12DPi-NT6)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
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	<p><u>SCLA26E1C4-R609LP</u> <u>SCLA25TQC-R609LP</u> ● <u>SC825BTQC-R1K23LPB</u> ● <u>SC213BAC8-R1K23LPB</u> ● <u>SC826BAC12-R1K23LPB</u> ● <u>SC829HAC12-R1K62LPB</u> Heatsink:SNK-P0078PC Heatsink:SNK-P0078P Heatsink:SNK-P0078PC Heatsink:SNK-P0078P Heatsink:SNK-P0078PC Heatsink:SNK-P0078P Heatsink:SNK-P0077PW Heatsink:SNK-P0078AP4 Heatsink:SNK-P0078PC Heatsink:SNK-P0078P Heatsink:SNK-P0078PC Heatsink:SNK-P0078P Heatsink:SNK-P0078PC Heatsink:SNK-P0078P Heatsink:SNK-P0078PC</p>			<p>● <u>SC745BAC-R1K23B</u> ● <u>SC846BE1C8-R1K23B4</u> ● <u>SC847BE1C12-R1K68LPB4</u> Heatsink:SNK-P0078P Heatsink:SNK-P0078P Heatsink:SNK-P0078PC Heatsink:SNK-P0078P Heatsink:SNK-P0078P</p>
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● = Most optimized Chassis for SuperServer Configuration
 Blue color = Compatible
 Green color = Global SKU & Compatible
 Red dot & green color = Optimized + Global SKU

Server (Optimized for X12DPI-NT6)

Server Name
<u>SYS-220P-C9RT</u>
<u>SYS-620P-TRT</u>
<u>SYS-740P-TRT</u>
<u>SSG-620P-ACR12H</u>
<u>SSG-620P-ACR12L</u>
<u>SSG-620P-ACR16H</u>
<u>SSG-620P-ACR16L</u>
<u>SSG-640P-E1CR24L</u>
<u>SSG-640P-E1CR24H</u>
<u>SSG-640P-E1CR36L</u>
<u>SSG-640P-E1CR36H</u>

