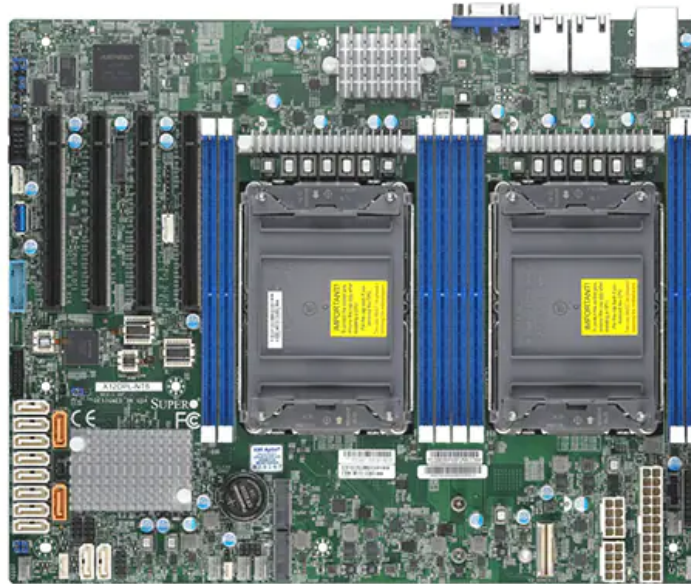# X12DPL-NT6

12" x 10"

Key Features

3rd Gen Intel® Xeon® Scalable processors

Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 185W TDP, 2 UPI up to 11.2 GT/s

Intel® C621A

Up to 2TB RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz, in 8 DIMM slots

4 PCIe 4.0 x16,

1 PCIe 4.0 NVMe x8 Internal Port(s)

M.2 Interface: 2 PCIe 4.0 x4

M.2 Form Factor: 2280/22110, 2280

M.2 Key: M-Key

Intel® C621A controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10

Dual LAN with Intel® X550 10GBase-T Ethernet Controller

1 VGA port

Specifications

Product SKUs
MBD-X12DPL-NT6

Physical Stats
Form Factor
ATX
Dimension
12.23" x 10" (31.06cm x 25.4cm)

Processor
CPU
3rd Gen Intel® Xeon® Scalable processors
Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 185W TDP, Dual UPI up to 11.2 GT/s

System Memory
Memory Capacity
8 DIMM slots
Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz; Up to 2TB ECC RDIMM, DDR4-3200MHz
Memory Type
3200/2933/2666 MT/s ECC DDR4 LRDIMM (3DS), RDIMM
DIMM Sizes
256GB
LRDIMM: 256GB
RDIMM: 256GB
Memory Voltage
1.2V
Error Detection
Corrects single-bit errors
Detects double-bit errors (using ECC memory)

On-Board Devices
Chipset
Intel® C621A
SATA
Intel® C621A controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI
ASPEED AST2600 BMC
Graphics
1 ASPEED AST2600 BMC port(s)
Network Controllers
Dual LAN with Intel® X550 10GBase-T Ethernet Controller

Input / Output
LAN
2 RJ45 10 Gigabit Ethernet LAN ports
USB
5 USB 3.2 Gen1 port(s) (2 via header; 2 rear; 1 type A)
Video Output
1 VGA port(s)
Serial Port
1 COM Port(s) (1 header)
DOM
2 SATA DOM (Disk on Module) power connector support
TPM
1 TPM Header

Expansion Slots
PCIe
4 PCIe 4.0 x16
M.2
M.2 Interface: 1 PCIe 4.0 x4; 1 PCIe 4.0 x4
Form Factor: 2280/22110, 2280
Key: M-Key, M-Key

System BIOS
BIOS Type
AMI UEFI

Management
Software
Redfish API, Supermicro Server Manager (SSM), Supermicro Power Manager (SPM), Supermicro Update Manager (SUM), SuperDoctor® 5, Super Diagnostics Offline , KVM with dedicated LAN , IPMI 2.0
System Management Software
IPMICFG, IPMIView for Linux/Windows, SMCIPMITool
Power Configurations
ACPI Power Management

Security
Hardware
Trusted Platform Module (TPM) 2.0

PC Health Monitoring
Voltage
Supports system management utility, Monitors CPU voltages, Chassis intrusion header, 3.3V standby, +5V standby, +5V, +3.3V, +12V, 8 -fan status
LED
UID/Remote UID
BMC/IPMI Heartbeat LED
Temperature
CPU thermal trip support
PECI
FAN
8x 4-pin fan headers (up to 8 fans)
PWM fan speed control
Overheat LED indication
Other Features
UID, 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, Chassis intrusion detection, ATX Power connector, ACPI power management, RoT, NCSI header

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

Standard Parts (Bulk Package)

CPU carrier

Part Number	SKT-1205L-P4IC-FXC
Qty	2
Description	CPU carrier for 3rd Gen Intel Xeon Scalable Processors

I/O Cables

Part Number	CBL-0044L • *eStore*
Qty	2
Description	57.5CM SATA FLAT S-S PBF

I/O Shield

Part Number	MCP-260-00156-0N
Qty	1
Description	I/O Shield for X12DPL-i6/NT6 with EMI Gasket

Standard Parts (Retail Package)

CPU carrier

Part Number	SKT-1205L-P4IC-FXC
Qty	2
Description	CPU carrier for 3rd Gen Intel Xeon Scalable Processors

I/O Cables

Part Number	CBL-0044L • *eStore*
Qty	6
Description	57.5CM SATA FLAT S-S PBF

I/O Shield

Part Number	MCP-260-00156-0N
Qty	1
Description	I/O Shield for X12DPL-i6/NT6 with EMI Gasket

Optional Parts

I/O Shield

Part Number	MCP-260-00157-0N
Qty	1
Description	1U I/O Shield for X12DPL with EMI Gasket,RoHS