X12DPi-NT6

Key Features

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

Intel® C621A

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.

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

Intel® C621A controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10

Dual LAN with 10GBase-T with Intel® X550

2 VGA (1 rear bezel, 1 front panel) ports

Product SKUs

MBD-X12DPi-NT6	X12DPi-NT6

Physical Stats

Form Factor	E-ATX
Dimension	12" x 13" (30.48cm x 33.02cm)

Processor

CPU	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	Up to 40 cores

System Memory

Memory Capacity	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	3200/2933/2666MHz ECC DDR4 LRDIMM (3DS), RDIMM
DIMM Sizes	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 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	ASPEED AST2600 BMC
Network Controllers	Dual LAN with 10GBase-T with Intel® X550

Input / Output

SATA	14 SATA3 (6Gbps) port(s)
LAN	2 RJ45 10 Gigabit Ethernet LAN ports
USB	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	2 VGA (1 rear bezel, 1 front panel) port(s)
Serial Port	2 COM Port(s) (1 header; 1 rear)
TPM	1 TPM Header

Expansion Slots

PCI-E	4 PCI-E 4.0 x16, 2 PCI-E 4.0 x8
M.2	M.2 Interface: 1 PCI-E 4.0 x4 Form Factor: 2280/22110 Key: M-Key

System BIOS

BIOS Type	AMI UEFI

Management

Software	SuperDoctor® 5, SUM, KVM with dedicated LAN, SPM, Intel® Node Manager, SSM, IPMI2.0, Watchdog
System Management Software	IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support

PC Health Monitoring

Voltage	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	UID/Remote UID Power LED BMC/IPMI Heartbeat LED
FAN	8x 4-pin fan headers (up to 8 fans) PWM fan speed control
Other Features	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	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)