X12DPFR-AN6

Key Features

3rd Gen Intel® Xeon® Scalable processors

Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 165W TDP, 3 UPI up to 10.4 GT/s

Intel® C621A

Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz

Up to 4TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 16 DIMM slots

1 PCIe 4.0 x16 Right Riser Slot,

1 PCIe 4.0 x8 connector for SMC add-on cards,

3 PCIe 4.0 NVMe x8 Internal Port(s)

1 PCIe 4.0 x16, OCP 3.0 compliant

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

1 VGA port

Single LAN with

Networking options provided via AIOM module

Optimized Servers

SYS-F610P2-RTN

SYS-F620P3-RTBN

Specifications

Product SKUs
MBD-X12DPFR-AN6

Physical Stats
Form Factor
Proprietary FatTwin
Dimension
8.53" x 19.66" (21.59cm x 48.26cm)

Processor
CPU
3rd Gen Intel® Xeon® Scalable processors
Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 165W TDP, 3 UPI up to 10.4 GT/s

System Memory
Memory Capacity
16 DIMM slots
Up to 4TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz
Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz
Memory Type
ECC DDR4 LRDIMM (3DS), RDIMM (3DS)
DIMM Sizes
32GB, 64GB, 128GB
LRDIMM: 32GB, 64GB, 128GB
RDIMM: 32GB, 64GB, 128GB
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 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI
ASPEED AST2600 BMC
Graphics
1 ASPEED AST2600 BMC port(s)
Network Controllers
Single LAN, Networking options provided via AIOM module

Input / Output
SATA
10 SATA3 (6Gbps) port(s)
LAN
1 RJ45 Dedicated IPMI LAN port
USB
2 USB 3.2 Gen1 port(s) (2 rear)
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
1 PCIe 4.0 x16 Right Riser Slot,
1 PCIe 4.0 x8 connector for SMC add-on cards,
1 PCIe 4.0 x16 AIOM, OCP 3.0 compliant

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
Power Configurations
ACPI Power Management

Security
Hardware
Trusted Platform Module (TPM) 2.0

PC Health Monitoring
Voltage
Monitors CPU voltages, Chipset Voltage, 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, +1.8V
LED
UID/Remote UID
BMC/IPMI Heartbeat LED
Temperature
Thermal Control for 3 Fan Connectors
Monitoring for CPU and chassis environment
CPU thermal trip support
FAN
3x 4-pin fan headers (up to 3 fans)
PWM fan speed control
Other Features
WOL, UID, RoHS, Node Manager Support, CPU thermal trip support for processor protection, 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-9670V	AOM-TPM-9670H
Qty	1	1
Description	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