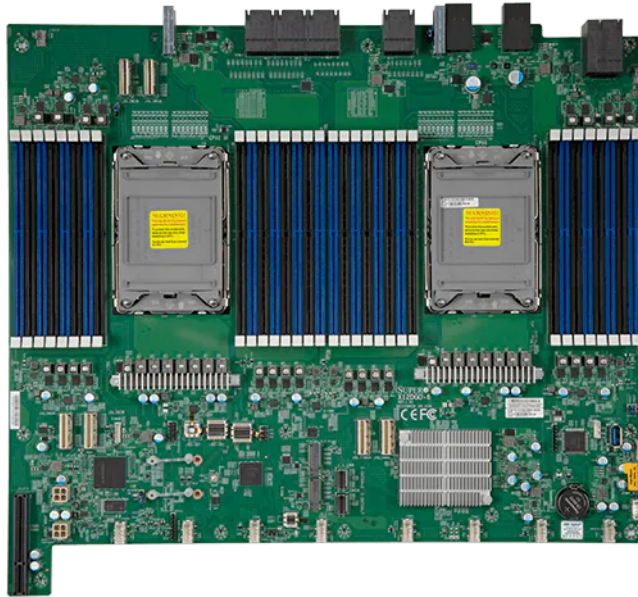


X12DGO-6 (For SuperServer Only)



GPU Serverboard

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 8TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 8TB 3DS ECC LRDIMM, DDR4-3200MHz
Up to 8GB Unbuffered ECC Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 32 DIMM slots
4. 3 PCI-E 4.0 x16
M.2 Interface: 2 PCI-E 4.0 x4
M.2 Form Factor: 2280/22110
5. Intel® C621A controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10
6. 1 VGA port

Specifications

Product SKUs

| | |
|---------------------|--|
| MBD-X12DGO-6 | <ul style="list-style-type: none"> X12DGO-6 |
|---------------------|--|

Physical Stats

| | |
|--------------------|--|
| Form Factor | <ul style="list-style-type: none"> Proprietary |
| Dimension | <ul style="list-style-type: none"> 15.09" x 16.85" (38.33cm x 42.8cm) |

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"> 32 DIMM slots Up to 8TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz Up to 8TB 3DS ECC LRDIMM, DDR4-3200MHz; Up to 8TB 3DS ECC RDIMM, DDR4-3200MHz |
| Memory Type | <ul style="list-style-type: none"> ECC DDR4 LRDIMM (3DS), RDIMM (3DS) |
| DIMM Sizes | <ul style="list-style-type: none"> LRDIMM: 16GB, 32GB, 64GB, 128GB, 256GB RDIMM: 16GB, 32GB, 64GB, 128GB, 256GB |
| Memory Voltage | <ul style="list-style-type: none"> 1.2V |

On-Board Devices

| | |
|----------------------------|---|
| Chipset | <ul style="list-style-type: none"> Intel® C621A |
| SATA | <ul style="list-style-type: none"> Intel® C621A controller for 8 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"> N/A |

Input / Output

| | |
|---------------------|--|
| SATA | <ul style="list-style-type: none"> 8 SATA3 (6Gbps) port(s) |
| USB | <ul style="list-style-type: none"> 3 USB 3.2 Gen2 port(s) (2 type A; 1 via header) 3 USB 3.1 Gen2 port(s) (2 type A; 1 via header) |
| Video Output | <ul style="list-style-type: none"> 1 VGA port(s) |
| Serial Port | <ul style="list-style-type: none"> 1 COM Port(s) (1 header) |
| TPM | <ul style="list-style-type: none"> 1 TPM Header |

Expansion Slots

| | |
|--------------|--|
| PCI-E | <ul style="list-style-type: none"> 3 PCI-E 4.0 x16 |
| M.2 | <ul style="list-style-type: none"> M.2 Interface: 2 PCI-E 4.0 x4 Form Factor: 2280/22110 |

System BIOS

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

Management

| | |
|-----------------------------------|--|
| Software | <ul style="list-style-type: none"> SuperDoctor® 5, NMI, <u>SUM</u>, KVM with dedicated LAN, <u>SPM</u>, Intel® Node Manager, <u>SSM</u>, <u>IPMI2.0</u>, Watchdog, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SuperDoctor® III |
| System Management Software | <ul style="list-style-type: none"> IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support |
| Power Configurations | <ul style="list-style-type: none"> ACPI Power Management, Power supply monitoring |

PC Health Monitoring

| | |
|----------------|---|
| Voltage | <ul style="list-style-type: none"> VBAT, System temperature, PCH temperature, Memory temperature, CPU temperature, CPU, 3.3V standby, +5V, +3.3V, VRM temperature, Memory Voltages, CPU thermal trip support |
| FAN | <ul style="list-style-type: none"> 8x fans with tachometer monitoring |

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

Parts List

| Parts List (Bulk Package) | | | |
|---------------------------|--------------|-----|----------------------|
| Name | Part Number | Qty | Description |
| Motherboard | MBD-X12DGO-6 | 1 | X12DGO-6 Motherboard |

Server (Optimized for X12DGO-6)

| Server Name |
|---------------------------|
| <u>SYS-420GP-TNAR</u> |
| <u>SYS-420GP-TNAR+</u> |
| <u>SYS-420GP-TNAR+-US</u> |

