# Apogean Intel Xeon Scalable 4th Gen Dual Socket Server

## ID41U-S4-T / ID82U-S4-T / ID122U-S4-T / ID163U-S4-T / ID244U-S4-T

## Key Features

- 2S Intel Sapphire Rapids CPU

- (4/8/12/16) 3.5" SATA Drive Slots

- (1) NVMe M.2 2280 slot

- (3) PCIe 5.0 x16 + (2) PCIe 5.0 x8 slots

- (16) DIMM slots w/ DDR5 4800 memory support

- (2) 10GBase T LAN + (1) dedicate 1000Base T IPMI ports

- AST2600 BMC with IPMI 2.0 & Redfish support

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# Specifications

## Processor

| | |
|---|---|
| Q'ty / Socket Type | (2) LGA4677 |
| Supported CPU Series | 4th Gen. Intel Xeon Scalable Processors |
| Thermal Design Power Wattage | Max up to 270W (TDP) |

## Chipset

| | |
|---|---|
| PCH | Intel C741 |

## Memory

| | |
|---|---|
| Supported DIMM Qty | (8)+(8) DIMM slots |
| DIMM Type / Speed | DDR5 4800 MHz (1DPC) |
| Capacity | Up to 2,048GB RDIMM DDR5 4800 |
| Memory channel | 8 Channels per CPU |
| Memory voltage | 1.1V |

## Expansion Slots

| | |
|---|---|
| PCIe | (2) PCIe Gen.5 x8 slots / (3) PCIe Gen.5 x16 slots |

## LAN

| | |
|---|---|
| Q'ty / Port | (2) 10GbE ports + (1) GbE dedicated for IPMI |
| Controller | Intel X710-AT2 |
| PHY | Realtek RTL8211F |

## Storage SATA

| | |
|---|---|
| Drive Slots | 4 x 3.5" Hot Swap Drive Slots in 1U Rack<br>8/12 x 3.5" Hot Swap Drive Slots in 2U Rack<br>16 x 3.5" Hot Swap Drive Slots in 3U Rack<br>24 x 3.5" Hot Swap Drive Slots in 4U Rack<br>**Note : RAID Card is must for 12 and above drive slots SKUs.** |
| Controller | Intel C621 |
| Speed | 6Gb/s |
| RAID | RAID 0/1/10/5 (Intel RSTe) |

## Storage NVMe

| | |
|---|---|
| Connector (M.2) | (1) 2280 (by PCIe 4 interface) or (2) 2280 (by PCIe 4 interface) |

## Graphic VGA

| | |
|---|---|
| Connector type | D-Sub 15-pin |
| Resolution | Up to 1920x1200 |
| Chipset | Aspeed AST2600 |

## Input /Output

| | |
|---|---|
| USB | (1) USB2.0 port ( Type-A ) / (1) USB3.1 Gen.1 ports / (1) USB3.1 Gen.1 header |
| COM | (1) DB-9 COM Connector |
| VGA | (1) D-Sub 15-pin port |
| RJ-45 | (2) 10GbE ports + (1) GbE dedicated for IPMI |
| Front Panel | (1) 2x12-pin SSI front panel header |
| Power | (1) ATX 24-pin + (2) 8-pin + (1) 4-pin power connectors |
| PSMI | (1) 1x5-pin header |
| Other | (1) ID button |

## TPM (Optional)

| | |
|---|---|
| TPM Support | Please refer to our TPM supported list. |
| Interface | SPI |

## System Monitoring

| | |
|---|---|
| Chipset | Aspeed AST2600 |
| Temperature | Monitors temperature for CPU, memory & system environment |
| Voltage | Monitors voltage for CPU, memory, chipset & power supply |
| LED | Over temperature warning indicator / Fan & PSU fail LED indicator |

## Server Management

| | |
|---|---|
| Onboard Chipset | Onboard Aspeed AST2600 |
| AST2600 iKVM Feature | 24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub |
| AST2600 IPMI Feature | IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface |

## BIOS

| | |
|---|---|
| Brand / ROM size | AMI / 32MB |
| Feature | Hardware Monitor / FAN speed control automatic / Boot from USB device/PXE via LAN/Storage / Console Redirection / SMBIOS 3.3/PnP/ Wake on LAN / ACPI 6.2 / ACPI sleeping states S0,S1,S5 |

## Physical Dimension

| | |
|---|---|
| Form Factor | 1U/2U/3U/4U Rackmount (As per the Drive Slots) |
| Power Supply | Single / Redundant : 500W, 800W, 1200W, 1600W, 2000W |

## Regulation

| | |
|---|---|
| ISO Certification | Yes |
| BIS | Yes |
| QCI | Yes |

## Operating Environment

| | |
|---|---|
| Operating Temp. | 10° C ~ 35° C (50° F~ 95° F ) |
| Non-operating Temp. | - 40° C ~ 70° C (-40° F ~ 158° F) |
| In/Non-operating Humidity | 90%, non-condensing at 35° C |