Apogean 2U 4 GPU Server Dual Socket 5th / 4th Gen Intel Xeon Scalable Processors

ID122U-S4-4GGB

Key Features

Dual 5th/4th Gen Intel® Xeon® Scalable Processors

- Supports up to 4 x Dual slot Gen5 GPUs

- Dual Intel® Xeon® CPU Max Series

- 8-Channel DDR5 RDIMM, 32 x DIMMs

- Dual ROM Architecture

- 12 x 3.5"/2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays

- 4 x FHFL PCIe Gen5 x16 slots for GPUs

- 1 x FHHL PCIe Gen5 x16 slot

- 1 x OCP NIC 3.0 Gen5 x16 slot

- Dual 2700W 80 PLUS Titanium redundant power supply

Apogean

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Specifications

Dimensions (WxHxD, mm)

2U
438 x 87.5 x 815

CPU

5th Generation
Intel® Xeon® Scalable Processors
4th Generation
Intel® Xeon® Scalable Processors
Intel® Xeon® CPU Max Series
Dual processor, TDP up to 350W

Note : If only 1 CPU is installed, some PCIe or memory functions might be unavailable.

Socket

2 x LGA 4677
Socket E

Chipset

Intel® C741

Memory

32 x DIMM slots
DDR5 memory supported
8-Channel memory per processor

5th Gen Intel® Xeon®:

RDIMM: Up to 5600 MT/s (1DPC), 4400 MT/s (2DPC)

4th Gen Intel® Xeon®:

RDIMM: Up to 4800 MT/s (1DPC), 4400 MT/s (2DPC)

Intel® Xeon® Max Series:

RDIMM: Up to 4800 MT/s (1DPC), 4400 MT/s (2DPC)

LAN

Rear:

1 x 10/100/1000 Mbps Management LAN

Video

Integrated in ASPEED® AST2600

1 x Mini-DP

Storage

Front hot-swap:

12 x 3.5"/2.5" Gen5 NVMe/SATA/SAS-4 [1]
(6 x NVMe from CPU_0, 6 x NVMe from CPU_1)

SAS card is required to support SAS drives.

Backplane Board

Speed and bandwidth:

PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s

Security Modules

1 x TPM header with SPI interface - Optional
TPM2.0 kit: CTM010

SAS

Require SAS add-in cards

RAID

Intel® SATA RAID 0/1/10/5 Onboard VROC key header

Support optional RAID add-in cards

PCIe Expansion Slots Riser Card CRS202P:

- 2 x FHFL x16 (Gen5 x16), from CPU_0, for GPUs

Riser Card CRS202Q:

1 x FHFL x16 (Gen5 x16), from CPU_1, for GPUs
1 x FHHL x16 (Gen5 x16), from CPU_1

Riser Card CRS201J:

1 x FHFL x16 (Gen5 x16), from CPU_1, for GPUs
1 x OCP NIC 3.0 (Gen5 x16), from CPU_0
Supports NCSI function

Front I/O

2 x USB 3.2 Gen1 ports (Type-A)
1 x Power button with LED
1 x ID button with LED
1 x NMI button
1 x Reset button
2 x LAN activity LEDs (disabled)
1 x Storage activity LED
1 x System status LED

Power Supply[#1]

Dual 2700W 80 PLUS Titanium redundant power supply [1]

AC Input:

100-127V~/ 12A, 50-60Hz
200-240V~/ 16A, 50-60Hz

DC Input: (Only for China)

240Vdc/ 16A

DC Output:

Max 1008W/ 100-127V~
+12V/ 84A
+12Vsb/ 3A
Max 2700W/ 200-240V~ or 240Vdc Input
+12V/ 225A
+12Vsb/ 3A

[1] The system power supply requires C19 power cord.

System Management

ASPEED® AST2600 Baseboard Management Controller Management Console web interface

Dashboard

HTML5 KVM

Sensor Monitor (Voltage, RPM,Temperature, CPU Status ...etc.)

Sensor Reading History Data

FRU Information

SEL Log in Linear Storage / Circular Storage Policy

Hardware Inventory

Fan Profile

System Firewall

Power Consumption

Power Control

Advanced power capping

LDAP / AD / RADIUS Support

Backup & Restore Configuration

Remote BIOS/BMC/CPLD Update

Event Log Filter

User Management

Media Redirection Settings

PAM Order Settings

SSL Settings

SMTP Settings

System Fans

1 x 40x40x28mm (34,000rpm)

4 x 80x80x38mm (18,300rpm)

Operating Properties

Operating temperature: 10°C to 30°C

Operating humidity: 8%-80% (non-condensing)

Non-operating temperature: -40°C to 60°C

Non-operating humidity: 20%-95% (non-condensing)