Apogean Dual Socket Intel Xeon Scalable 4th & 5th Gen Processor 2U Server

ID122U-S4-7136-T

Key Features

- Dual Socket 4th & 5th Gen. Intel Xeon Scalable Processors

- (16) DIMM slots with DDR5-4800 memory support

- (12) 3.5" SATA with opt. 4 NVMe U.2 hot-swap, tool-less drive bays

- (2) 2.5" SATA hot-swap, tool-less drive bays @ rear

- (2) PCIe Gen.5 x16 slots / (3) PCIe Gen.5 x8 slots (1x w/ x4 link)

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

- (2) NVMe M.2 2280 slots

- PCIe 5.0 x16 OCP v3.0 LAN mezzanine slot

- (1+1) 1200W 80 plus Platinum CRPS

Specifications

System

Form Factor	2U Rackmount
Dimension (D x W x H)	27.56" x 17.26" x 3.42" (700 x 438.5 x 87mm)
Gross Weight	28 kg (61.7 lbs)
Net weight	16.5 kg (36.5 lbs)
Board Dimension	Prop. 14.18" x 12.16" (360.2 x 308.8mm)

Front Panel

Buttons	(1) ID / (1) PWR w/ LED / (1) RST
LEDs	(1) HDD / (1) ID / (2) LAN / (1) BMC event
I/O Ports	(1) USB 3.2 Gen.1 port + (1) RJ-45 / (1) COM Port / (1) VGA port / (2) Standalone RJ-45

External Drive Bay

Q'ty / Type	(2) 2.5" Hot-Swap HDD/SSDs (@ rear) / (12) 3.5"/2.5" Hot-Swap HDD/SSDs w/ (4) NVMe
Front Drive Bay Interface	(2) SATA 6Gb/s / NVMe / (12) SATA 6Gb/s with (4) NVMe ports
Front HDD Backplane Support	NVMe / SATA 6Gb/s

System Cooling Configuration

Fan	(4) 8cm fans

Power Supply

Type	CRPS
Input Range	AC 100-127V/13A / AC 200-240V/10A
Frequency	50-60 Hz
Output Watts	1,000 Watts (100-127V AC input) / 1,200Watts (200-240V AC input)
Efficiency	80 plus Platinum
Redundancy	1+1

Processor

Q'ty / Socket Type	(2) LGA4677
Supported CPU Series	4th Gen. Intel Xeon Scalable Processors / 5th Gen. Intel Xeon Scalable Processors
Thermal Design Power Wattage	Max up to 350W (TDP)

Chipset

PCH	Intel C741

Memory

Supported DIMM Qty	(8)+(8) DIMM slots
DIMM Type / Speed	RDIMM / RDIMM-3DS DDR5 4800 MHz (1DPC) / 4400MHz (2DPC) - 4th Gen. / RDIMM / RDIMM-3DS DDR5 5600 MHz (1DPC) / 4400MHz (2DPC) - 5th Gen.
Capacity	Up to 2,048GB RDIMM/3DS RDIMM DDR5 5600/ 4800/ 4400 *Follow latest Intel DDR5 Memory POR
Memory channel	8 Channels per CPU
Memory voltage	1.1V

LAN

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

BIOS

Brand / ROM size	AMI / 64MB
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 6.0 / ACPI sleeping states S0, S5

Expansion Slots

PCIe	(2) PCIe Gen.5 x16 slots / (3) PCIe Gen.5 x8 slots (1x w/ x4 link)
Pre-installed Riser Card (PCIe Gen.5)	(1)riser card for for (1) FH/HL PCIe 5.0 x16 + (1) FH/HL PCIe 5.0 x8 slots / (1)riser card for (1) FH/HL PCIe 5.0 x16 + (2) FH/HL PCIe 5.0 x8 (1x w/ x4 link) slots
Other	(1) PCIe Gen.5 x16 OCP 3.0 mezzanine slot

Storage SATA

Connector	(10) SATA
Controller	Intel C741
Speed	6Gb/s
RAID	RAID 0/1/10/5 (Intel RSTe)

Storage NVMe

Connector (M.2)	(2) 2280 (by PCIe 4.0 interface)
Connector (U.2)	(4) MCIO x4

Graphic VGA

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

I/O Ports

USB	(2) USB3.2 Gen.1 ports (@ rear)
COM	(1) DB-9 COM port
VGA	(1) D-Sub 15-pin port
RJ-45	(2) 10 GbE ports + (1) dedicated GbE for IPMI
Button	ID Button
Others	(1) ID LED / (1) ID button

TPM (Optional)

TPM Support	Yes
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 / Over voltage warning indicator
Others	Watchdog timer support

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

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

Certifications

BIS	Yes
QCI	Yes
ISO	Yes

Apogean

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