

Apogean Server with Dual 5th and 4th Gen Intel® Xeon® Scalable Processors

ID41U-S4-A / ID82U-S4-A / ID122U-S4-A / ID242U-S4-A /
ID163U-S4-A / ID244U-S4-A / ID364U-S4-A



Items pictured may only be representative.

Features

- Supports Dual 5th and 4th Gen Intel® Xeon® Scalable Processors
- 8+8 DIMM slots (1DPC), supports DDR5 RDIMM/ RDIMM-3DS
- 5 PCIe5.0 / CXL1.1 x16 and 1 PCIe5.0 x8 Slots
- 2 MCIO (PCI5.0 x8) Slots
- 3 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s)
- Supports 1 M.2 (PCIe5.0 x4)
- 2 RJ45 (10GbE) by Intel X710-AT2
- Remote management (IPMI)

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Specifications:

Physical Status

Form Factor Rackmount 1U/2U/3U/4U Rackmount
(As per the Drive Slots)

Processor System

CPU Supports 5th and 4th Gen Intel® Xeon® Scalable Processors
Socket 1+1 Socket E (LGA 4677)
Thermal Design Power 350W
Chipset Intel® C741

System Memory

Supported DIMM 8+8 DIMM slots (1DPC)
Quantity
Supported Type 288-pin DDR5 RDIMM/ RDIMM-3DS
RDIMM: 96GB
Max. Capacity per DIMM RDIMM-3DS: 2H- 128 GB / 4H- 256 GB
5600 MT/s on 5th Gen Intel® Xeon® Scalable Processors
Max. DIMM Frequency 4800 MT/s on 4th Gen Intel® Xeon® Scalable Processors
*Memory speed and capacity support varies by CPU SKU
Voltage 1.1V

PCIe Expansion Slots (SLOT7 close to CPU)

PCIe x 16 SLOTT6: PCIe5.0 / CXL1.1 x16 [CPU0]
SLOTT5: PCIe5.0 / CXL1.1 x16 [CPU1]
SLOTT4: PCIe5.0 / CXL1.1 x16 [CPU0]
SLOTT3: PCIe5.0 / CXL1.1 x16 [CPU1]
SLOTT1: PCIe5.0 / CXL1.1 x16 [CPU1]
PCIe x 8 SLOTT2: PCIe5.0 x8 [CPU0]

Other PCIe Expansion Connectors

M.2 slot 1 M-key (PCIe4.0 x4), supports 22110/2280 form factor [CPU1]
2 MCIO (PCIe5.0 / CXL2.0* x8 or 8 SATA 6Gb/s) [CPU1]
Others 1 MCIO (PCIe5.0 / CXL2.0* x8) [CPU1]

SATA/SAS Storage

Drive Slots 4 x 3.5/2.5" Drive Slots - 1U Rack
8/12 x 3.5/2.5" Drive Slots - 2U Rack
24 x 2.5" Drive Slots - 2U Rack
16 x 3.5/2.5" Drives Slots - 3U Rack
24 x 3.5/2.5" Drives Slots - 4U Rack
36 x 3.5/2.5" Drives Slots - 4U Rack
Note: Additional RAID/HBA Card is required for 12 and above drive slots SKUs.

Ethernet

Additional GbE Controller 2 RJ45 (10GbE) by Intel® X710-AT2

Server Management

BMC Controller ASPEED AST2600: IPMI2.0 with iKVM and vMedia support
IPMI Dedicated GLAN 1 Realtek RTL8211F for dedicated management GLAN

Graphics

Controller ASPEED AST2600:
1 DB15 (VGA), 1 header

Other PCIe Expansion Connectors

M.2 slot 1 M-key (PCIe5.0 x4); support 22110/2280 form factor [CPU0]
Others 2 MCIO (PCIe5.0 x8) [CPU0]
OCuLink 3 OcuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH]

Rear I/O

UID Button/LED 1 UID button w/ LED
Video Port 1 DB15 (VGA)
USB 2.0 Port 2 Type-A (UBS2.0)
RJ45 2 RJ45 (10GbE), 1 dedicated IPMI

Internal Connector/Headers

Power Connector 1 (24-pin, ATX main power), 2 (8-pin, ATX 12V)
Other Power Connectors 2 (8-pin, add-on card power & FAN)
Auxiliary Panel Header 1 (18-pin): chassis intrusion, system fault LED, LAN1/LAN2 activity LED, locate, SMBus
System Panel 1 (9-pin): power switch, reset switch, system power LED, HDD activity LED
COM Header 1 (9-pin)
VGA header 1 (15-pin)
Fan Header 8 (6-pin)
TPM Header 1 (13-pin, SPI)
VROC header 1
SGPIO Header 2
HSBP 2
SMBus header 2
PMBus header 1
IPMB Header 1
Clear CMOS 1 (contact pads)
Others 2 (1-pin, TGPIO header)
USB 3.2 (Gen1) Header 1 header (19-pin, 2 USB3.2 Gen1)
NMI Header 1

LED Indicators

Standby PWR LED 1
80 Debug Port LED 1
Fan Fail LED 8
BMC heartbeat LED 1

System BIOS

BIOS Type AMI UEFI BIOS; 512Mb SPI Flash ROM
Plug and Play (PnP), ACPI 4.0 and above
BIOS Features compliance wake up events, SMBIOS 3.4 and above, instant flash

Hardware Monitor

Temperature CPU, PCH, MB, Card side Temperature Sensing
Fan Tachometer
Fan CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature)
Fan Multi-Speed Control
Voltage PSU +12V & +5VSB & +3.3V, +3VSB, PVNN_PCH, P1V05_PCH_STBY, P1V8_PCH_STBY, +BAT, PVCCIN_CPU0, PVCCIN_CPU1, PVCCINFAON_CPU0, PVCCINFAON_CPU1, PVCCFA_EHV_FIVRA_CPU0, PVCCFA_EHV_FIVRA_CPU1, PVCCD_HV_CPU0, PVCCD_HV_CPU1
Power Supply Single/Dual : 500W, 800W, 1200W, 1600W, 2000W, 2400W

Environment

Temperature Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C
Humidity Non operation humidity: 20% ~ 90% (Non condensing)





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Supported OS
OS

Microsoft® Windows®
- Server 2022 (64 bit)

Linux

- Red Hat Enterprise Linux Server 8.4 (64 bit) / 8.5 (64 bit)
- SUSE Enterprise Linux Server 15 SP3 (64 bit)
- Ubuntu 21.10 (64 bit) / 22.04.2 (64 bit)

Hypervisor:

- VMWare® ESXi 7.0 U3g / 8.0

*On the Ubuntu system is not support Raid mode.

