

Apogean Rack Server with Dual AMD EPYCTM 9005/9004 Server Processors

AD122U-E4-4GGB



Key Features

- Supports up to 4 x dual-slot Gen5 GPUs
- Dual AMD EPYCTM 9005/9004 Server Processors
- 12-Channel DDR5 RDIMM per CPU with 24 x DIMMs
- 8 x 3.5"/2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 4 x 3.5"/2.5" SATA/SAS-4 hot-swap bays
- 4 x FHFL PCIe x16 slots with Gen5 x16 lanes for GPUs
- 1 x FHHL PCIe x16 slot with Gen5 x16 lanes
- 1 x OCP NIC 3.0 PCIe Gen5 x16
- Compatible with SupremeRAIDTM by Graid Technology
- Dual 2700 W 80 PLUS Titanium redundant power supplies

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Specifications:

• Dimensions (WxHxD, mm)

2U Rackmount
438 x 87.5 x 815

• CPU

AMD EPYCTM 9005 Server Processors
AMD EPYCTM 9004 Server Processors
Dual processors, cTDP up to 500 W

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

• Socket

2 x LGA 6096
Socket SP5

• Chipset

System on Chip

• Memory

24 x DIMM slots
Support DDR5 RDIMM
12-Channel memory per processor
AMD EPYC 9005: Up to 6400 MT/s
AMD EPYC 9004: Up to 4800 MT/s

• PCIe Expansion Slots

PCIe Cable x 5
- 2 x FHFL x16 (Gen5 x16), from CPU_0, for GPUs
- 2 x FHFL x16 (Gen5 x16), from CPU_1, for GPUs
- 1 x FHHL x16 (Gen5 x16), from CPU_1
1 x OCP NIC 3.0 (Gen5 x16), from CPU_0
- Supports NCSI function

• Storage

Front hot-swap:

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

Internal M.2:

1 x M.2 (2280/22110), PCIe Gen3 x4, from CPU_0, occupied for SATA
1 x M.2 (2280), PCIe Gen3 x4, from CPU_1, occupied for SATA

[1] SAS card is required to support SAS drives.

• RAID

Require RAID add-in cards
Optional compatible RAID Cards:
NVMe RAID Cards with SupremeRAIDTM by Graid Technology
RAID Card models: SR-1000-ED12
Support RAID 0/1/5/6/10

• LAN

Rear:
1 x 10/100/1000 Mb/s Management LAN

• Video

Integrated in ASPEED® AST2600
- 1 x Mini-DP

• Security Modules

1 x TPM header with SPI interface
- Optional TPM 2.0 kit: CTM010

• 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 status LED
1 x System status LED

• Rear I/O

2 x USB 3.2 Gen1 ports (Type-A)
1 x Mini-DP
1 x MLAN port
1 x ID LED

• Backplane Board

Speed and bandwidth:
PCIe Gen5 x4 or SATA 6 Gb/s or SAS-4 24 Gb/s

• Power Supply

Dual 2700 W 80 PLUS Titanium redundant power supplies [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





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Specifications:

• OS Compatibility

Red Hat Enterprise Linux 9.4 or later
VMware ESXi 8.0
VMware ESXi 9.0
VMware ESXi 9.1
Windows Server 2022
Windows Server 2025

• Operating Properties

Operating temperature: 10°C to 35°C
Operating humidity: 8%-80% (non-condensing)
Non-operating temperature: -40°C to 60°C
Non-operating humidity: 20%-95% (non-condensing)

• System Fans

1 x 40x40x28mm
4 x 80x80x56mm

• Weight

Net Weight: 31.7 kg
Gross Weight: 36 kg

• Packaging Dimensions

1082 x 685 x 314 mm