

Apogean Dual Socket AMD EPYC 9004 Series Processors Rackmount Servers

AD82U-E4-G / AD122U-E4-G



Key Features

- Dual AMD EPYCTM 9004 Series Processors (with AMD 3D V-Cache™ Technology)
- 2 x 10Gb/s BASE-T LAN ports via Broadcom® BCM57416
- Max cTDP 400W
- 2 x SlimSAS 8i connectors with PCIe Gen4 x8 or SATA interface
- 12-Channel RDIMM DDR5, 24 x DIMMs
- 1 x SlimSAS 4i connectors for 4 x SATA 6Gb/s
- 8 or 12 Bay 3.5"/2.5" Hot Swap Drive Slots.
- 1 x M.2 slot with PCIe Gen4 x4 interface
- 4 x PCIe Gen4 x16 expansion slots

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Specifications:

• Form Factor

2U Rack Mount
304.8W x 335.2D mm

• CPU

AMD EPYCTM 9004 Series Processors
AMD EPYCTM 9004 Series Processors with AMD 3D V-Cache™ Technology
Dual processor, 5nm technology
Up to 128 cores, 256 threads per processor
CTDP up to 400W

• Socket

2 x LGA 6096
Socket SP5

• Chipset

System on Chip

• Memory

24 x DIMM slots
DDR5 memory supported only
12-Channel memory architecture
RDIMM up to 96GB supported
3DS RDIMM up to 256GB supported
Memory speed: Up to 4800 MT/s

• LAN

2 x 10Gb/s BASE-T LAN ports (1 x Broadcom® BCM57416)
Support NCSI function
1 x 10/100/1000 Mbps Management LAN

• Video

Integrated in Aspeed® AST2600
2D Video Graphic Adapter with PCIe bus interface
1920x1200@60Hz 32bpp

• Storage Interface PCH:

8 or 12 Bay 3.5"/2.5" Hot Swap Drive Slots.

• RAID

N/A onboard, only Via External RAID Controller Card

• Expansion Slots

Slot_4: PCIe x16 (Gen4 x16) slot, from CPU_0
Slot_3: PCIe x16 (Gen4 x16) slot, from CPU_0
Slot_2: PCIe x16 (Gen4 x16) slot, from CPU_1
Slot_1: PCIe x16 (Gen4 x16) slot, from CPU_1

1 x M.2 slot:

M-key
PCIe Gen4 x4, from CPU_0
Supports 2280/22110 cards

• TPM

1 x TPM header with SPI interface
Optional TPM2.0 kit: CTMo10

• PSU Connectors

1 x 24-pin ATX main power connector
2 x 8-pin ATX 12V power connectors
2 x 6-pin ATX 12V power connectors

• Internal I/O

1 x 24-pin ATX main power connector
2 x 8-pin ATX 12V power connectors
2 x 6-pin ATX 12V power connectors
2 x CPU fan headers
4 x System fan headers
1 x USB 3.2 Gen1 x2 header
1 x M.2 slot
2 x SlimSAS 8i connectors
1 x SlimSAS 4i connector
1 x Front panel header
1 x Backplane board header
1 x PMBus connector
1 x IPMB connector
1 x TPM header

• Rear I/O

2 x USB 3.2 Gen1
1 x VGA
1 x COM
2 x RJ45
1 x MLAN
1 x ID button with LED

• Board Management

Aspeed® AST2600 management controller Management Console (AMI MegaRAC SP-X) 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

• Operating Properties

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