

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

AD82U-E4-4GGB



Key Features

- Supports up to 4 x dual-slot Gen5 GPUs
 - 4 x NVIDIA H200 NVL PCIe GPUs
 - 4 x NVIDIA RTX PROTM 6000 Blackwell Server Edition
- Dual AMD EPYCTM 9005/9004 Server Processors
- 12-Channel DDR5 RDIMM per CPU with 24 x DIMMs
- 2 x 10 Gb/s LAN ports via Broadcom® BCM57416
- 4 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 4 x 2.5" SATA/SAS-4 hot-swap bays
- 4 x FHFL PCIe x16 slots with Gen5 x16 lanes or
- 8 x FHFL PCIe x16 slots with Gen5 x8 lanes for GPUs
- 2 x LP PCIe x16 slots with Gen5 x16 lanes for add-in cards
- Dual 3000 W 80 PLUS Titanium redundant power supplies

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AD82U-E4-4GGB

Specifications:

• Dimensions (WxHxD, mm)

2U

448 x 87.5 x 962 (depth including 112 mm rear fans)

• CPU

AMD EPYCTM 9005 Server Processors

AMD EPYCTM 9004 Server Processors

Dual processor, cTDP up to 240 W

- At 30°C ambient, cTDP up to 300 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

Riser Card x 6:

- 4 x FHFL x16 (Gen5 x16) or 8 x FHFL x16 (Gen5 x8)

- 2 x LP x16 (Gen5 x16), from CPU_0

***The system supports 4 x NVIDIA H200 NVL PCIe GPUs at 25°C ambient, arranged as four individual GPUs without NVLink bridge support.**

***The system supports 4 x RTX PRO 6000 Blackwell Server Edition GPUs at 25°C ambient.**

***GPU video output ports are not available due to mechanical limitations.**

***The system is only validated with a uniform GPU model.**

• Storage

Front hot-swap:

4 x 2.5" Gen5 NVMe/SATA/SAS-4 [1]

4 x 2.5" SATA/SAS-4 [1]

- (NVMe from CPU_1)

- (SATA from CPU_1)

[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:

2 x 10 Gb/s LAN (1 x Broadcom® BCM57416)

- Support NCSI function

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

• Front I/O

1 x Power button with LED

1 x ID button with LED

1 x Reset button

2 x LAN activity LEDs

1 x Storage activity LED

1 x System status LED

• Rear I/O

2 x USB 3.2 Gen1 ports (Type-A)

1 x VGA port

2 x RJ45 ports

1 x MLAN port

1 x Power button with LED

1 x ID button with LED

1 x NMI button

1 x Reset button

1 x System status LED

• Video

Integrated in ASPEED® AST2600

- 1 x VGA port

• Security Modules

1 x TPM header with SPI interface

- Optional TPM 2.0 kit: CTM012

• Power Supply

Dual 3000 W 80 PLUS Titanium redundant power supplies [1]

AC Input:

- 100-127V~/15.5A, 50-60Hz

- 200-220V~/15.5A, 50-60Hz

- 220-240V~/15.5A, 50-60Hz

DC Output:

- Max 1000W/100-127V~

+12.2V/ 81A

+12Vsb/ 3A

- Max 2600W/200-220V~

+12.2V/ 213A

+12Vsb/ 3A

- Max 3000W/220-240V~ or 240Vdc Input

+12.2V/ 245A

+12Vsb/ 3A

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

• System Fans

8 x 80x80x80mm

• Operating Properties

Operating temperature: 10°C to 35°C

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

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

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

