

## Specification Sheet

### Apogean 1U Rack Server – AMD EPYC 9004 Dual Processor 4-Bay

#### Model – AD41U-E4-GB

#### **Features -**

- Dual AMD EPYC™ 9004 Series Processors
- 12-Channel DDR5 RDIMM, 24 x DIMMs
- Dual ROM Architecture
- 2 x 1Gb/s LAN ports via Intel® I350-AM2
- 4 x 3.5"/2.5" Gen4 NVMe/SATA/SAS hot-swap bays
- 3 x M.2 slots with PCIe Gen3 x4 and x2 interface
- 2 x FHHL PCIe Gen5 x16 slots
- 2 x OCP NIC 3.0 PCIe Gen5 x16 slots
- Dual 1200W/1600W 80 PLUS Platinum redundant power supply



## Specifications :

### Dimensions (WxHxD, mm)

1U  
438 x 43.5 x 815

### CPU

AMD EPYC™ 9005 Series Processors  
AMD EPYC™ 9004 Series Processors

**[Note]** cTDP supported up to 400W under limited thermal conditions.

**[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  
DDR5 memory supported  
12-Channel memory architecture  
RDIMM: Up to 4800 MT/s

### LAN

**Rear :**  
2 x 1Gb/s LAN (1 x Intel® I350-AM2)  
- Support NCSI function

1 x 10/100/1000 Mbps Management LAN

### Video

Integrated in Aspeed® AST2600  
- 1 x Mini-DP

### Storage

**Front hot-swap:**  
4 x 3.5"/2.5" Gen4 NVMe/SATA/SAS [1]  
- (NVMe from CPU\_1)  
- (SATA from CPU\_0)

### Internal M.2:

1 x M.2 (2280/22110), PCIe Gen3 x4, from CPU\_0  
1 x M.2 (2280/22110), PCIe Gen3 x4, from CPU\_1  
1 x M.2 (2280/22110), PCIe Gen3 x2, from CPU\_1

### SAS

Require SAS add-in cards

### RAID

Require RAID add-in cards

### PCIe Expansion Slots

#### Riser Card :

- 1 x FHHL x16 (Gen5 x16), from CPU\_0

#### Riser Card :

- 1 x FHHL x16 (Gen5 x16), from CPU\_1

1 x OCP NIC 3.0 (Gen5 x16), from CPU\_0

- Supports NCSI function

1 x OCP NIC 3.0 (Gen5 x16), from CPU\_1

- Supports NCSI function

### 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  
1 x Storage activity LED  
1 x System status LED

### Rear I/O :

2 x USB 3.2 Gen1 ports (Type-A)  
1 x Mini-DP  
2 x RJ45 ports  
1 x MLAN port  
1 x ID LED

### Backplane Board

Speed and bandwidth:  
PCIe Gen4 x4 or SATA 6Gb/s or SAS 12Gb/s

### Security Modules

1 x TPM header with SPI interface  
**Optional** TPM2.0 kit: CTM010

### Power Supply

Dual 1600W 80 PLUS Platinum redundant power supply

AC Input:

- 100-120V~/ 12A, 50/60Hz  
- 200-240V~/ 10A, 50/60Hz

DC Input: (Only for China)  
- 240Vdc/ 10A

### DC Output:

- Max 1000W/ 100-120V~  
+12V/ 81.5A  
+12Vsb/ 2.5A  
- Max 1600W/ 200-240V~ or 240Vdc Input  
+12V/ 133A  
+12Vsb/ 2.5A

### 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

### System Fans

8 x 40x40x56mm (32,000rpm)

### 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)