

# Apogean



## Apogean Dual Socket AMD EPYC 9004 Series Processor Multi GPU 2U Server AD82U-E4-8261-T



### Key Features

- Dual Socket AMD EPYC 9004 Series Processor (Genoa / Bergamo / Genoa X CPU)
- (2) HH/HL PCIe 5.0 x16 slots
- (24) DIMM slots with DDR5 4800 memory support
- (8) 2.5" NVMe U.2 hot-swap, tool-less drive bays
- (4) FH/10.5"L double wide PCIe 5.0 x16 slots
- 2700W (1+1) 80 plus Titanium Hot Swap CRPS

Apogean

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## Specifications

### System

Form Factor	2U Rackmount
Dimension (D x W x H)	33.46" x 17.63" x 3.43" (850 x 448 x 87mm)

### Front Panel

Buttons	(1) PWR w/ LED / (1) UID / (1) RST
LED's	(1) HDD / (1) ID / (2) LAN / (1) Warning
I/O Ports	(2) USB 3.2 Gen.1 ports

### External Drive Bay

Q'ty / Type	(8) 2.5" Hot-Swap NVMe
Front Drive Bay Interface	(8) NVMe U.2
Front HDD Backplane Support	NVMe

### System Cooling Configuration

FAN	(6) 6cm hot-swap middle fans + (2) 6cm easy-swap rear fans
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### Power Supply

Type	CRPS
Input Range	AC 100-127V/14A / AC 200-240V/15.5A
Frequency	50/60 Hz
Output Watts	2,700 Watts
Efficiency	80 plus Titanium
Redundancy	1+1
Serviceability	Hot-swap

### Processor

Q'ty / Socket Type	(2) AMD Socket SP5
Supported CPU Series	(2) AMD EPYC™ 9004 Series Processor
Thermal Design Power Wattage	Max up to 400W (TDP)

### Memory

Supported DIMM Qty	(12)+(12) DIMM slots
DIMM Type / Speed	RDIMM DDR5 4800 MHz (1DPC) / 3600MHz (2DPC) / 3DS RDIMM DDR5 3600MHz (2DPC)
Capacity	Up to 6,144GB RDIMM/3DS RDIMM DDR5 4800/4000 memory
Memory channel	12 Channels per CPU
Memory voltage	1.1V

### Expansion Slots

PCIe	(2) AMD Socket SP5
Pre-installed Riser Card (PCIe Gen.5)	(1) Riser card for (2) HH/HL PCIe 5.0 x16 slots / (1) Riser card for (2) FH/FL PCIe 5.0 x16 slots / (1) Riser card for (2) FH/FL PCIe 5.0 x16 slots

### Storage NVMe

Connector (U.2)	(4) SFF-TA-1016 (MCIO 8x) for (8) front NVMe
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### LAN

Q'ty / Port	(2) 10GbE ports + (1) GbE dedicated for IPMI
Controller	Intel X550-AT2
PHY	Realtek RTL8211F

### Graphic

Connector type	D-Sub 15-pin
Resolution	Up to 1920x1200
Chipset	Aspeed AST2600

### I/O Ports

USB	(2) USB3.2 Gen.1 ports (@ front) / (2) USB3.2 Gen.1 ports (@ rear)
VGA	(1) D-Sub 15-pin port
RJ-45	(2) 10 GbE ports + (1) dedicated GbE for IPMI
Button	ID Button / Power Button / Reset Button

### TPM (Optional)

TPM Support	Please refer to our TPM supported list.
Interface	SPI

### System Monitoring

Chipset	Aspeed AST2600
Temperature	Monitors temperature for CPU & memory & system environment
Voltage	Monitors voltage for CPU, memory, chipset & power supply
LED	Over temperature warning indicator/ Fan & PSU fail LED indicator/ Over voltage warning indicator

### Server Management

Onboard Chipset	Onboard Aspeed AST2600
AST2600 iKVM Feature	24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub
AST2600 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface

### BIOS

Brand / ROM size	AMI / 32MB
Feature	Hardware Monitor / FAN speed control automatic / Boot from USB device/PXE via LAN/Storage / Console Redirection / SMBIOS 3.5/PnP/Wake on LAN / ACPI 6.4 / ACPI sleeping states S0, S5

### Operating Environment

Operating Temp.	10° C ~ 35° C (50° F ~ 95° F)
Non-operating Temp.	- 40° C ~ 70° C (-40° F ~ 158° F)
In/Non-operating Humidity	90%, non-condensing at 35° C

### Certifications

BIS	Yes
QCI	Yes
ISO	Yes