



Apogean AMD EPYC 9004 Series Single Socket Server AS41U-E4-T / AS82U-E4-T / AS122U-E4-T

Key Features

- 1S AMD EPYC Genoa / Bergamo / Genoa X CPU
- 8 DIMM slots w/ DDR5 4800 Memory Support
- 4/8/12 x 3.5"/2.5" SATA Drive Slots
- 5 PCIe 5.0 x16 slots
- 2 1000Base-T LAN + 1 dedicate 1000 Base-T IPMI ports
- AST2600 BMC with IPMI 2.0 & Redfish support
- 2 MCIO 8x & 2 MCIO 4x conn. (NVMe)
- 2 NVMe M.2 22110 / 2280 slots



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Specifications

Processor

Q'ty / Socket Type	(1) AMD Socket SP5
Supported CPU Series	(1) AMD EPYC™ 9004 Series Processor
Thermal Design Power Wattage	Max up to 400W (cTDP)

Memory

Supported DIMM Qty	(8) DIMM slots
DIMM Type / Speed	DDR5 4800 MHz (1DPC) / 4000MHz (2DPC)
Capacity	Up to 2,048GB RDIMM/3DS RDIMM DDR5 4800/4000 memory
Memory channel	8 Channels per CPU
Memory voltage	1.1V

Expansion Slots

PCIe	(5) PCIe Gen.5 x16 slots Note : In 1U all this slots will not be active
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LAN

Q'ty / Port	(2) GbE ports + (1) GbE dedicated for IPMI
Controller	Intel I210-AT
PHY	Realtek RTL8211F

Storage SATA

Drive Slots	4 x 3.5" Hot Swap Drive Slots in 1U Rack 8/12 x 3.5" Hot Swap Drive Slots in 2U Rack Note : RAID Card is must for 12 drive slots SKUs.
Controller	Direct from AMD EPYC CPU
Speed	6Gb/s
RAID	N/A

Storage NVMe

Connector (M.2)	(2) 22110/2280 (by PCIe Gen.4 interface)
Connector (U.2)	(2) MCIO x4 / (2) MCIO x8

Graphic VGA

Connector type	D-Sub 15-pin
Resolution	Up to 1920X1080 @60Hz
Chipset	Aspeed AST2600

Input /Output

NVMe	(2) MCIO x4 / (2) MCIO x8
USB	(2) USB3.2 Gen.1 ports
COM	(1) DB-9 COM Connector
VGA	(1) D-Sub 15-pin port
RJ-45	(2) GbE ports + (1) GbE dedicated for IPMI
Front Panel	(1) 2x12-pin SSI front panel header
SATA	(2) Mini-SAS HD (SFF-8643) connectors / (4) 7-pin SATA connectors
Power	(2) 2x4 Power input connectors / (1) 2x12 Power input connector
Other	(1) ID button

TPM (Optional)

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

System Monitoring

Chipset	Aspeed AST2600
Fan	Total (6) 4-pin headers
Temperature	Monitors temperature for CPU & system environment
Voltage	Monitors voltage for CPU, memory, chipset & power supply
LED	Fan fail LED indicator / Over temperature warning indicator
Others	Watchdog timer support

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 3.0/PnP/Wake on LAN / ACPI sleeping states S0, S5

Physical Dimension

Form Factor	1U 4 Bay Model / 2U 8 & 12 Bay Model
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Regulation

BIS	Yes
QCI	Yes
ISO	9001, 14001, 27001

Operating Environment

Operating Temp.	Yes
Non-operating Temp.	Yes
In/Non-operating Humidity	9001, 14001, 27001

Power Supply

Single and RPS	Single : 750W, 1000W, 1200W, 1600W, 2000W RPS : 500W, 800W, 1200W, 1600W, 2000W
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