

Apogean Tower Server / Workstation With Dual Socket AMD EPYC 9005/9004 Series Processors

AD4T-E4-A / AD8T-E4-A



Key Features

- Supports AMD EPYC 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
- 8+8 DIMM slots (1DPC), supports DDR5 RDIMM, RDIMM-3DS
- 4 or 8 Bay 3.5"/2.5" Internal/Hot Swap Drive Slots.
- 2 PCIe5.0 / CXL2.0 x16
- 3 PCIe4.0 x16
- 2 MCIO (PCIe5.0 / CXL2.0 x8 or 8 SATA 6Gb/s), 1 MCIO (PCIe5.0 / CXL2.0 x8)
- Supports 1 M.2 (PCIe4.0 x4)
- 2 RJ45 (10GbE) by Intel® X710-AT2
- Remote Management (IPMI)

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AD4T-E4-A / AD8T-E4-A

Specifications:

• Physical Status

Form Factor Tower (Convertible to Rack - Optional)

• Processor System

CPU Supports AMD EPYCTM 9005*/9004 (with AMD 3D V-CacheTM Technology) and 97x4 series processors

Socket Dual Socket SP5 (LGA 6096)

Power Up to 400W

Chipset System on Chip

• Memory

Supported DIMM Qty 8+8 DIMM slots (1DPC)

Supported Type Supports DDR5 288-pin RDIMM, RDIMM-3DS

Max. Capacity per DIMM RDIMM: 128GB (2Rx4)
RDIMM-3DS: 256GB (2Rx4)

Max. DIMM Frequency 6400 MHz

Memory voltage 1.1V

• PCIe Expansion Slots (SLOT7 close to CPU)

PCIe x16 SLOTS: PCIe5.0 / CXL2.0* x16 [CPU2]
SLOT4: PCIe5.0 / CXL2.0* x16 [CPU2]
SLOT3: PCIe4.0 x16 [CPU2]
SLOT2: PCIe4.0 x16 [CPU1]
SLOT1: PCIe4.0 x16 [CPU1]

*Supports CXL1.1 while installing AMD EPYC 9004 (with AMD 3D V-CacheTM Technology) and 97x4 series processors

• Other PCIe Expansion Connectors

M.2 slot 1 M-key (PCIe4.0 x4), supports 22110/2280 form factor [CPU1]

Others 2 MCIO (PCIe5.0 / CXL2.0* x8 or 8 SATA 6Gb/s) [CPU1]
1 MCIO (PCIe5.0 / CXL2.0* x8) [CPU1]

• Storage

Drive Slots 4 or 8 Bay 3.5"/2.5" Internal/Hot Swap Drive Slots.

• Ethernet

Additional GbE Intel® X710-AT2: 2 RJ45 (10GbE)

Controller

• Server Management

BMC Controller ASPEED AST2600

IPMI Dedicated GLAN 1 Realtek RTL8211F for dedicated management GLAN

• Graphics

Controller ASPEED AST2600: 1 DB15 (VGA), 1 (15-pin) header

• Rear I/O

UID Button/LED 1 UID button w/ LED

Video Port 1 x DB15 (VGA)

USB 3.2 Gen1 Port 2 Type-A (USB3.2 Gen1)

RJ45 2 RJ45(10GbE)
1 dedicated IPMI

• LED Indicators

Standby PWR LED 1 (5VSB)

80 Debug Port LED 1

Fan Fail LED 6

BMC heartbeat LED 1

• System BIOS

BIOS Type AMI 256Mb SPI Flash ROM

BIOS Features Instant Flash, ACPI 6.4 and above compliance wake up events, SMBIOS 3.5.0 and above, Plug and Play(PnP)

• Hardware Monitor

Temperature CPU, MB, Card side Temperature sensing

Fan CPU/Rear/Front Fan Tachometer
CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature)
CPU/Rear/Front Fan Multi-Speed Control

Voltage VDDCR_CPU1, VDDCR_CPU2, VDDCR_SOC, VDDIO, VDD_11_S3, +3V, +5V, +12V, +BAT, +3VSB, +5VSB

• Environment and Power Supply

OS Microsoft® Windows: (for EPYC 9004)
- Server 2019 (64 bit)
- Server 2022 (64 bit)
Microsoft® Windows: (for EPYC 9005)
- Server 2019 (64 bit)
- Server 2022 (64 bit)
- Server 2025 (64 bit)
Linux: (for EPYC 9004)
- RedHat Enterprise Linux Server 8.6 (64bit) / Server 8.7 (64 bit) / Server 9.0 (64 bit) / Server 9.1 (64 bit)
- SUSE SLES 15.4 (64 bit)
- Ubuntu 20.04.5 (64 bit) / 22.04 (64 bit) / 22.10 (64 bit)
Linux: (for EPYC 9005)
- RedHat Enterprise Linux Server 8.10 (64bit) / Server 9.4 (64 bit)
- SUSE SLES 15.6 (64 bit)
- Ubuntu 22.04.5 (64 bit) / 24.04.2 (64 bit)
Hypervisor: (for EPYC 9004)
- VMWare® ESXi 8.0
Hypervisor: (for EPYC 9005)
- VMWare® ESXi 9.0

• Environment and Power Supply

Temperature Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C

Humidity Non-operation humidity: 20% ~ 90% (Non-condensing)

Power Supply Single : 750W, 850W, 950W, 1000W, 1200W, 1500W, 1600W, 2000W
Redundant : 800W, 1200W, 1600W, 2000W, 2400W, 2700W

