



APOGEAN DUAL SOCKET AMD RACKMOUNT SERVER

AD41U-E3-S / AD82U-E3-S



FRONT



BACK

1. Dual AMD EPYC™ 7003/7002 Series Processors
2. 4TB Registered ECC DDR4 3200MHz SDRAM in 16 DIMMs
3. Expansion slots:
3 PCI-E 4.0 x16 slots, 3 PCI-E 4.0 x8 slots | M.2 Interface: 1 PCI-E 4.0 x 4 |
M.2 Form Factor: 2280, 22110 | M.2 Key: M-key
4. 4/8 3.5" SATA 6Gbps Drive Slots.
5. 10 SATA3, 2 SATADOM, 4 NVMe
6. Dual Gigabit LAN ports, 1 dedicated IPMI LAN Port
7. ASPEED AST2600 BMC graphics
8. 2 USB 2.0 ports (rear), 4 USB 3.0 ports (2 rear, 2 headers)
9. 8x 4-pin PWM Fans & Speed control



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Physical Stats	Form Factor	1U / 2U Rackmount
	Dimensions	12" x 13.05" (30.5cm x 33.1cm)
Processor/Cache	CPU	Dual AMD EPYC™ 7003/7002 Series Processors Socket SP3
	Cores / Cache	Up to 64 cores
	Chipset	System on Chip
System Memory	Memory Capacity	<ul style="list-style-type: none"> • 16 DIMM slots • Supports up to 4TB Registered ECC DDR4 3200MHz SDRAM • 8-channel memory bus • For Dual CPUs: Recommended that memory be populated equally in adjacent memory banks
	Memory Type	DDR4 3200 MHz Registered ECC, 288-pin gold-plated DIMMs
	DIMM Sizes	8GB, 16GB, 32GB, 64GB, 128GB, 256GB
	Memory Voltage	1.2V
	Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory)
On-Board Devices	SATA	SATA3 (6 Gbps)
	IPMI	<ul style="list-style-type: none"> • Support for Intelligent Platform Management Interface v. 2.0 • IPMI 2.0 with virtual media over LAN and KVM-over-LAN support • ASPEED AST2600 BMC • Dual LAN via Broadcom BCM5720L Gigabit Ethernet Controller • ASPEED AST2600 BMC
	Network Controllers	Dual LAN via Broadcom BCM5720L Gigabit Ethernet Controller
	LAN	2x 1GbE LAN ports 1 RJ45 Dedicated IPMI LAN port
Input / Output	USB	2 USB 2.0 ports (rear) 4 USB 3.0 ports (2 rear, 2 headers)
	VGA	1 VGA port
	Others	1 COM port (rear) 2 SATA DOM power connectors 4 PCI-E 4.0 NVMe x4 internal ports TPM 2.0 header
	Storage and Power Supply	Drive Slots
Power Supply	500W, 700W, 1000W, 1200W, 500RPS, 800RPS, 1200RPS	

Expansion Slots	PCI-E	3 PCI-E 4.0 x16 slots 3 PCI-E 4.0 x8 slots
	M.2	Interface: 1 PCI-E 4.0 x4 Form Factor: 2280, 22110 Key: M-key
System BIOS	BIOS Type	AMI 256Mb SPI Flash EEPROM
	BIOS Features	<ul style="list-style-type: none"> • Plug and Play (PnP) • DMI 2.3 • PCI 2.2 • ACPI 6.2 • USB Keyboard Support • SMBIOS 3.1.1
Management	Software	Watch Dog, NMI, SUM, IPMI 2.0, KVM with dedicated LAN
	Power Configurations	<ul style="list-style-type: none"> • ACPI Power Management • Power-on mode control for AC power loss recovery
PC Health Monitoring	CPU	<ul style="list-style-type: none"> • Monitors CPU Core Voltages, +1.5V, +1.8V, +12V, +5V, +5V standby • CPU switching voltage regulator • VBAT
	FAN	Up to 8 fan status tachometer monitoring Up to 8x 4-pin fan headers Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
	Temperature	Monitoring for CPU and chassis environment CPU Thermal Trip Support Thermal control for 8x Fan connectors iC Temperature Sensing Logic
	LED	CPU / System Overheat LED
	Other Features	Chassis Intrusion Detection Chassis Intrusion Header
Operating Environment	Operating Temperature Range	10°C ~ 35°C (50°F ~ 95°F)
	Non-Operating Temperature Range	-40°C ~ 70°C (-40°F ~ 158°F)
	Operating Relative Humidity Range	8% ~ 90% (non-condensing)
	Non-Operating Relative Humidity Range	5% ~ 95% (non-condensing)

(Specifications are subject to change without notice. Items pictured may only be representative.)