



2U 24 NVMe PCI Gen 4 drive Storage Server AD242U-2N-V



Ultra Performance Storage Server Using Gen 4 PCIe NVMe SSDs and AMD EPYC™ Rome CPUs

Key Features

- Dimensions: 3.43 in. H x 17.2 in. W x 27.44 in. D (87 mm H x 438 mm W x 697 mm D)
- Highest performance – each SSD interface via x4 lane PCIe Gen 4 link
- Management interface for drive access and provisioning
- Hot-pluggable servers, power supplies, fans, and drives
- Latest AMD CPU technology provides 128 Gen 4 PCIe lanes per CPU and 24 hot-pluggable Gen 4 PCIe NVMe SSDs
- Up to 24 U.2 (SFF-8639) SSDs utilizing PCIe and NVMe protocols, (up to 25W per drive)
- Environmental operation up to 35°C ambient inlet
- Standard chassis customization and branding available
- Optional rail kit with CMA (cable management assembly)
- Optional TPM (trusted platform module)



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AC Power

- Nominal input range: 200-240V AC
- Input frequency: 50-60 Hz
- Power source: dual redundant 1600W
- Input current: 4 A max @ 180V AC per PSU
- Inrush current: 40 A peak per PSU
- Maximum system output power rating: 2200W

Firmware

- IPMI and Redfish ® management
- CLI and GUI control for drive management & status of the enclosure

2U Enclosure

- Dimensions: 3.43 in. H X 17.2 in. W X 27.44 in. D (87 mm H X 438 mm W X 697 mm D)
- Weight with drives, CMA, and rail kit: 58.7lbs (26.7 kg) max
- Optional rail kit with CMA (cable management assembly)
- Optional TPM (trusted platform module)

Failure Notifications

- Status LEDs for the enclosure, drives, servers, and fans

Non-Operating Environment

- Temperature: -40°C to 60°C
- Relative humidity: 10% to 90% (non-condensing)
- Altitude: -200 ft to 40,000 ft
- Shock: 10G at 11ms, half sine wave pulse
- Vibration: 0.5G at 5 Hz to 500 Hz

Electromagnetic Emissions & Immunity Standards

- EN 55035:2017
- EN 55024:2010
- EN 55032:2015 + AC:2016
- EN 61000-3-2:2014
- EN 61000-3-3:2013
- FCC 47 CFR PART 15 SUBPART B
- ICES-003 ISSUE 6:2016

Drive Partitioning

- Management software controls the visibility and access to each drive

Safety Standards

- IEC 62368 -1:2018

Hot-swappable Components

- Two server modules
- Six fans for redundancy
- Two AC to DC 1600W power modules
- Two independent AC power inputs
- U.2 (SFF-8639) SSDs utilizing Gen 4 PCIe and NVMe technology (hot pluggable)

Drive Partitioning

- Management software controls the visibility and access to each drive

Operating Environment

- Temperature: 5°C to 35°C
- Relative humidity: 20% to 80% (non-condensing)
- Altitude: -200 ft to 10,000 ft
- Shock: 5G at 11ms, 1/2 sine wave pulse
- Vibration: 0.10G at 5 Hz to 500 Hz

Performance

- 24-drive capacity
- Up to 25W per drive

Servers

- AMD EPYC™ processors
- Eight lanes Gen 3 PCIe NTB
- Each CPU sees 12 drives
- Each drive is single ported with x 4 PCIe Gen 4 connection direct to CPU for maximum performance

Monitoring & Reporting

- Monitors temperature, power, cooling (including fan speed control), drives, as well as error rates and quality of service
- Reporting of all serial number, part number, and revisions of the server modules, power supplies, drives & chassis

Quality Standards

- Manufactured under an ISO 9002 registered quality system

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