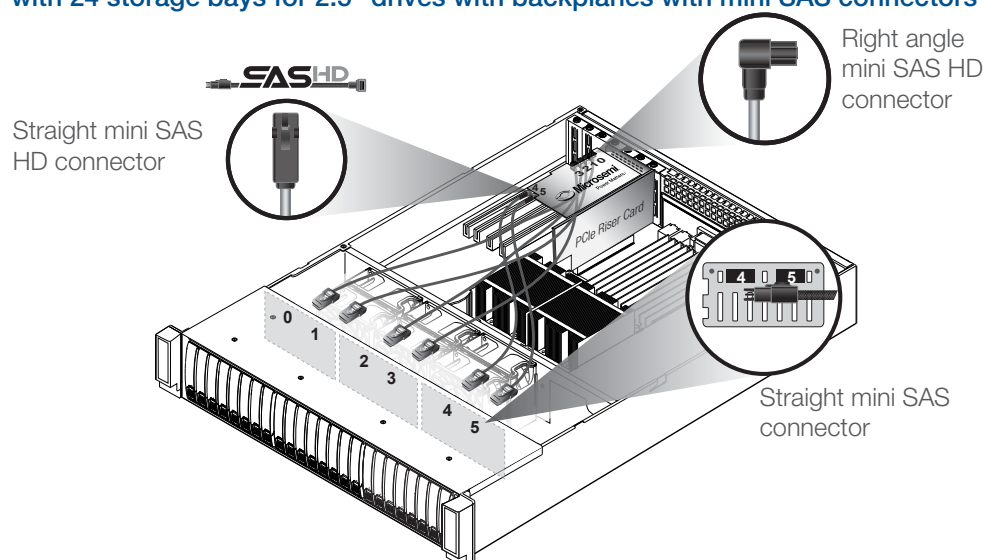


Microsemi Adaptec® 72405 Integration in 2U Chassis

A 72405 RAID adapter in riser card with right angle and straight mini SAS HD cable connectors in a generic 2U chassis with 24 storage bays for 2.5" drives with backplanes with mini SAS connectors



Requirements

2U chassis are one of the most common rack-mount configurations because of the low profile footprint, and the industry's adoption of 2.5-inch Small Form Factor (SFF) drives for maximum storage capacity. This presents some challenges for RAID adapter cards with respect to:

- Height of the boards
- Limited performance of a PCIe Gen3 RAID card with only 8 ports
- Cables with straight connectors
- Expander modules/expander backplanes

Series 7 RAID Solution

- The 24-port RAID adapter, a Half length FH card, easily plugs in to a PCI Gen3 slot, with 200 LFM airflow, with a PCIe riser card. It delivers maximum performance for up to 24 drives without the need of an expander.
- Microsemi's new right-angle connectors are an ideal solution; the straight connector cables can also be used in this configuration. For more information on SAS HD cables visit:
<http://www.microsemi.com/products/storage/cables-accessories/cables-accessories>.

The illustration above is specific to a RAID card with 24 internal ports. Series 7 also offers a 24-port RAID adapter with 16 internal and 8 external ports (ASR-71685).

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24-Port RAID Card with 6 Internal Cables

Configuration

72405: 24 native internal SAS/SATA ports, half length, full height. Single Part Number: 2274900-R

The ACK-I-rA-HDmSAS-mSAS-.8M is an internal "right angle" Mini Serial Attached SCSI HD x4 (SFF-8643) to Mini Serial Attached SCSI x4 (SFF-8087) cable. Part Number: 2280200-R.

The ACK-I-HDmSAS-mSAS-1M is an internal Mini Serial Attached SCSI HD x4 (SFF-8643) to Mini Serial Attached SCSI x4 (SFF-8087) cable. It measures 1 meter and is used for connecting a SAS/SATA adapter to a SAS/SATA backplane. Part Number: 2279700-R

HDDs and SSDs – check the compatibility guide at:
<http://www.microsemi.com/products/storage/compatibility>

Flash Module 700 (AFM-700) Optional: add-on super capacitor module for maintenance-free cache protection with real-time monitoring.



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