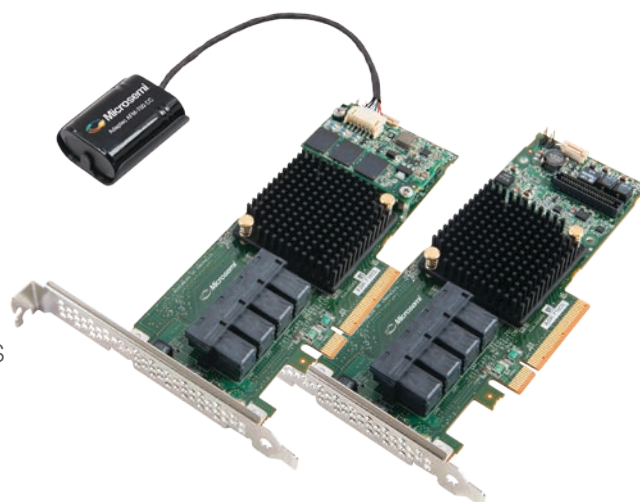
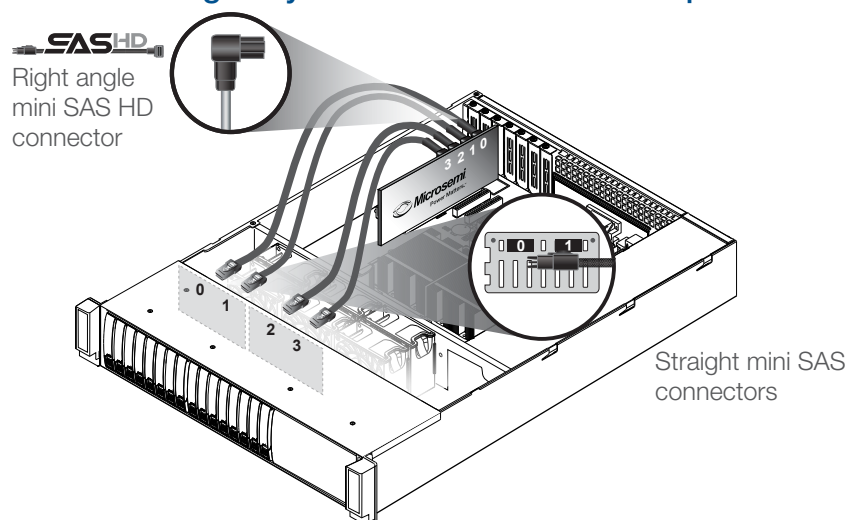


Microsemi Adaptec® 71605 or 71605E in 2U Chassis

A 71605 or 71605E RAID adapter with right angle mini SAS HD connector in a generic 2U chassis with 16 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 16-port RAID adapter, an MD2, low-profile card easily plugs into a PCI Gen3 slot, with 200 LFM airflow, in a 2U chassis.
- Series 7 RAID is the only PCIe Gen3, low profile RAID adapter available today with 16 native SAS/SATA ports. The 16 native ports take full advantage of the PCI Gen3 capabilities (16 x 6 Gbps SAS ports = 9.6 GB/s) versus the overhead and cost of using two 8-port adapters or expanders.
- Microsemi's new right-angle connectors. For more information on SAS HD cables visit: <http://www.microsemi.com/products/storage/cables-accessories/cables-accessories>.

The illustration above is specific to 16 drive bays. For 24 drive bays we recommend the Series 7 24-port adapter (ASR-72405) be installed with a riser card.

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16-Port RAID Card with 4 Internal Cables

Configuration

71605 for maximum full RAID performance: 16 port, low profile. Single Part Number: 2274400-R

71605E for entry-level RAID/HBA applications: 16 port, low profile. Single Part Number: 2274500-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.

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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