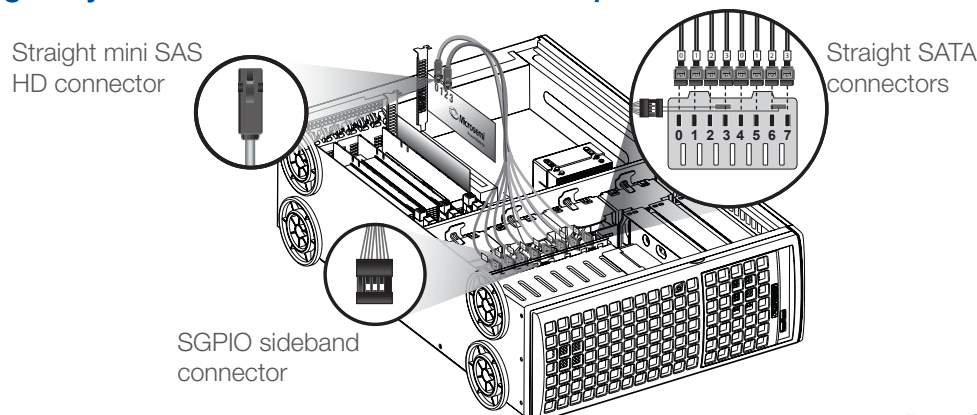


Microsemi Adaptec® 71605 in 4U Chassis

A 71605 RAID adapter with straight mini SAS HD cable connector in a generic 4U chassis with storage bays for 2.5" or 3.5" drives with backplanes with SATA connectors and sideband



Requirements

4U Chassis with SATA backplanes for 2.5" or 3.5" drives are one of the most flexible configurations because of the larger form factor of this chassis enclosure. This can still present some challenges for RAID adapter cards with respect to:

- Limited performance of a PCIe Gen 3 RAID card with only 8 ports
- Cables with straight connectors
- Expander modules/Expander backplanes

Series 7 RAID Solution

- Microsemi's 16-port RAID adapter, an MD2 Low Profile card, easily plugs into a PCI Gen3 slot, with 200 LFM airflow, in a 4U chassis and delivers maximum performance for up to 16 drives.
- Adaptec is the only PCIe Gen3, low profile RAID card 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 straight connector mini SAS HD cables are ideal if there is a second card in the next slot. Right angle 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 above illustration is specific to a 71605 with 16 internal ports connected to 8 drive bays. With a second card in the slot next to it, a mini SAS HD cable with a straight connector is recommended. If there is no card occupying the next slot, a right-angle cable may also be used. If only 8 storage devices are needed, the 7805 may also be used in this configuration.

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16-Port Card and 1 Internal Cable

Configuration:

- 71605: 16 internal native SAS/SATA ports, MD2 – Low profile. Single Part Number: 2274400-R
- The ACK-I-HDmSAS-4SATA-SB-.8M is an internal Mini Serial Attached SCSI HD x4 (SFF-8643) to (4) x1 Serial ATA (adapter based) fan-out cable with sideband signals (SFF-8448). It measures 0.8 meters and is used for connecting a SAS/SATA adapter to SATA disks, or a SAS/SATA backplane. Part Number: 2279800-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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