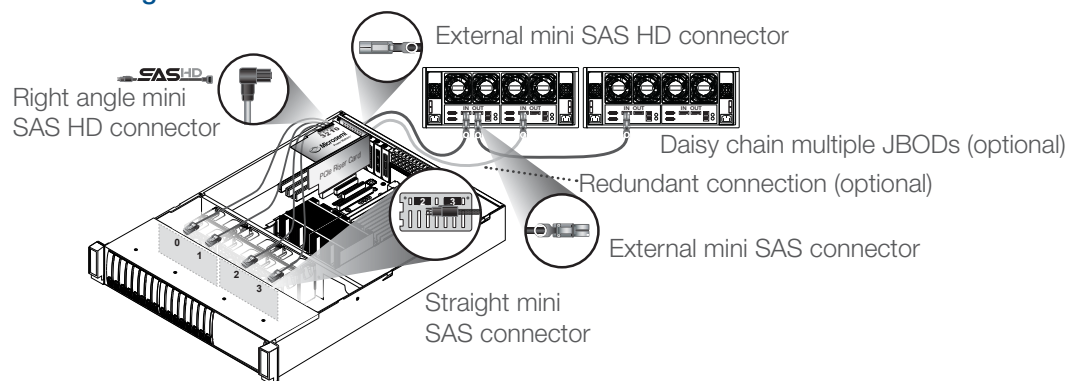


Microsemi Adaptec® 71685 in 2U Chassis

A 71685 RAID adapter in riser card with right angle mini SAS HD cable connectors and external cable connector in a generic 2U chassis with 16 storage bays for 2.5" drives with backplanes with mini SAS connectors and an external rackmount storage unit



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. For the most storage intensive applications, external JBOD rack mount systems are also a key component of this configuration. 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 into a PCI Gen3 slot, with 200 FLP airflow with a PCIe riser card and delivers maximum performance for up to 24 drives without the need of an expander.
- Two external connectors allow for a redundant connection to JBOD (optional). Option to daisy chain multiple JBODs is also possible.
- 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 is specific to a Microsemi RAID adapter with 16 internal and 8 external ports. If no external JBOD system is required, Series 7 also has an adapter configuration with 24 internal ports.

24-Port RAID Card with 4 Internal and 2 External Cables and JBOD Enclosure Configuration

71685: 24 native SAS/SATA ports, 16 internal and 8 external, Half Length FH. Single Part Number: 2274700-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

The ACK-E-HDmSAS-mSAS-2M is an external Mini Serial Attached SCSI HD x4 (SFF-8644) to Mini Serial Attached SCSI x4 (SFF-8088) cable. It measures 2 meters. Part Number: 2280300-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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