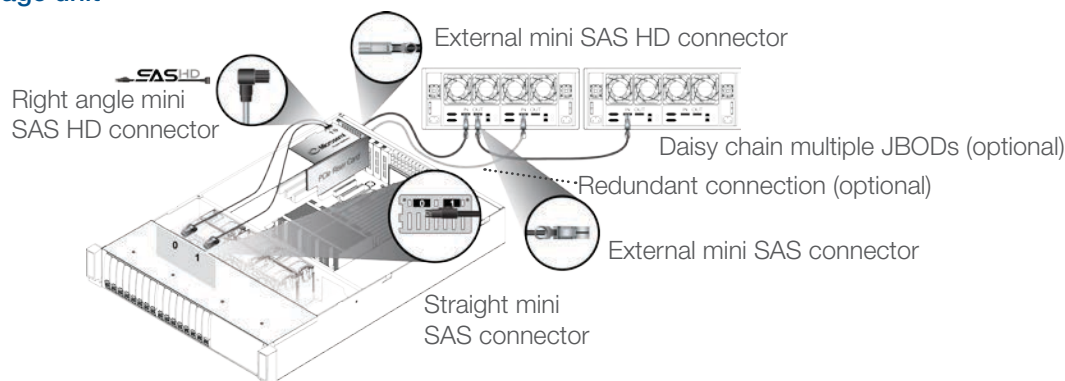# Microsemi Adaptec® 8885/8885Q in 2U Chassis

8885/8885Q RAID adapter with right angle mini SAS HD cable connectors and external cable connector in a generic 2U chassis that has sixteen 2.5" drive bays with mini SAS connectors in their backplanes 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" small form factor (SSF) 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/backplanes

Series 8 RAID Solution

- The 16-port RAID adapter, an MD2 low-profile card, easily plugs into a PCI Gen3 slot with 200 FLP airflow with a PCIe riser card, and delivers maximum performance for up to 16 drives without the need for an expander.
- Two external connectors allow for a redundant connection to JBOD (optional). Daisy chaining 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 about SAS HD cables visit: http://www.microsemi.com/products/storage/cables-accessories/cables-accessories.

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

- 8885 or 8885Q: 16 native SAS/SATA ports (8 internal and 8 external) MD2 low-profile.
- 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.
  Ordering 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. Ordering 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.
  Ordering part number: 2280300-R.
- HDDs and SDDs—check the compatibility guide at: http://www.microsemi.com/products/storage/compatibility.
- Optional (for 8885)—Flash Module 700 (AFM-700): add-on super capacitor module for maintenance-free cache protection with real-time monitoring.

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