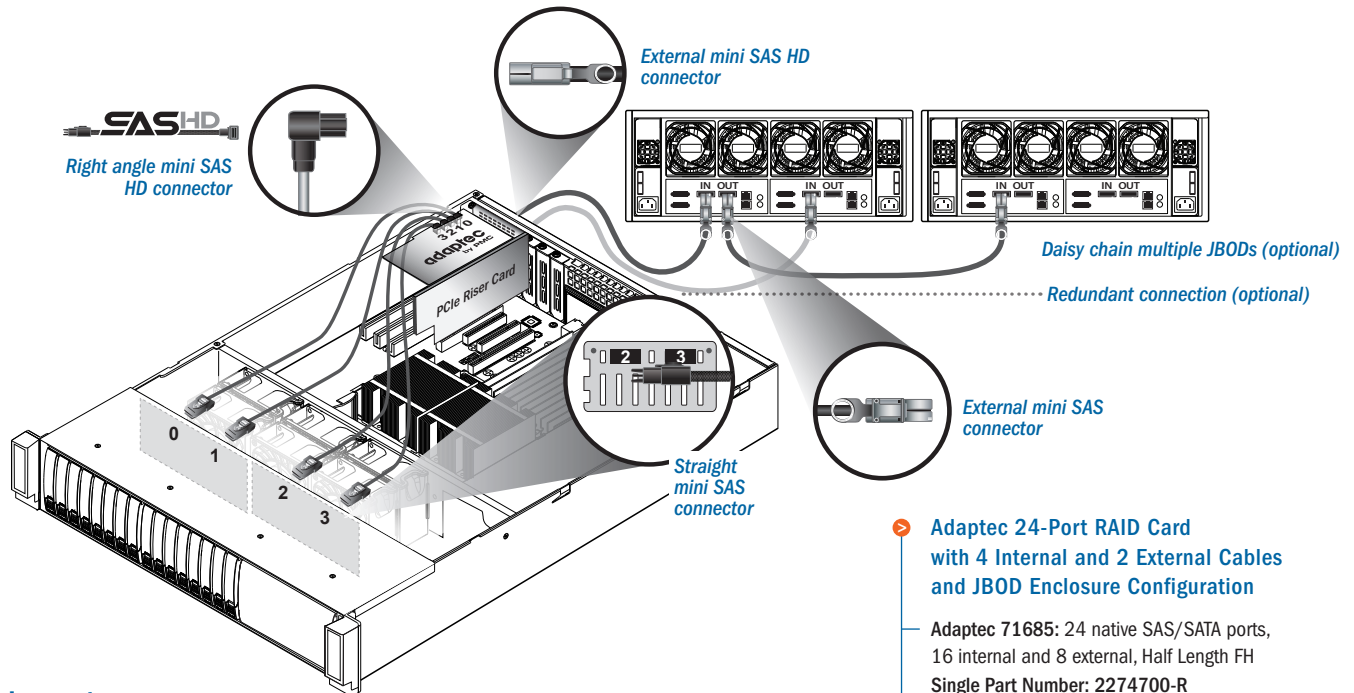
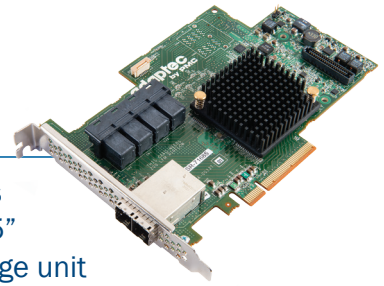


# Adaptec 71685 in 2U Chassis

Adaptec 71685 board 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:

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

## Adaptec by PMC Series 7 RAID Solution:

- The Adaptec 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.
- Adaptec'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: [www.adaptec.com/cables](http://www.adaptec.com/cables)

The illustration above is specific to an Adaptec RAID adapter with 16 internal and 8 external ports. If no external JBOD system is required, Adaptec Series 7 also has an adapter configuration with 24 internal ports. You will find that integration guide at: [http://www.adaptec.com/en-us/\\_common/compatibility/](http://www.adaptec.com/en-us/_common/compatibility/)

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

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

Adaptec 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 Adaptec 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 Adaptec 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.adaptec.com/en-us/\\_common/compatibility/](http://www.adaptec.com/en-us/_common/compatibility/)

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