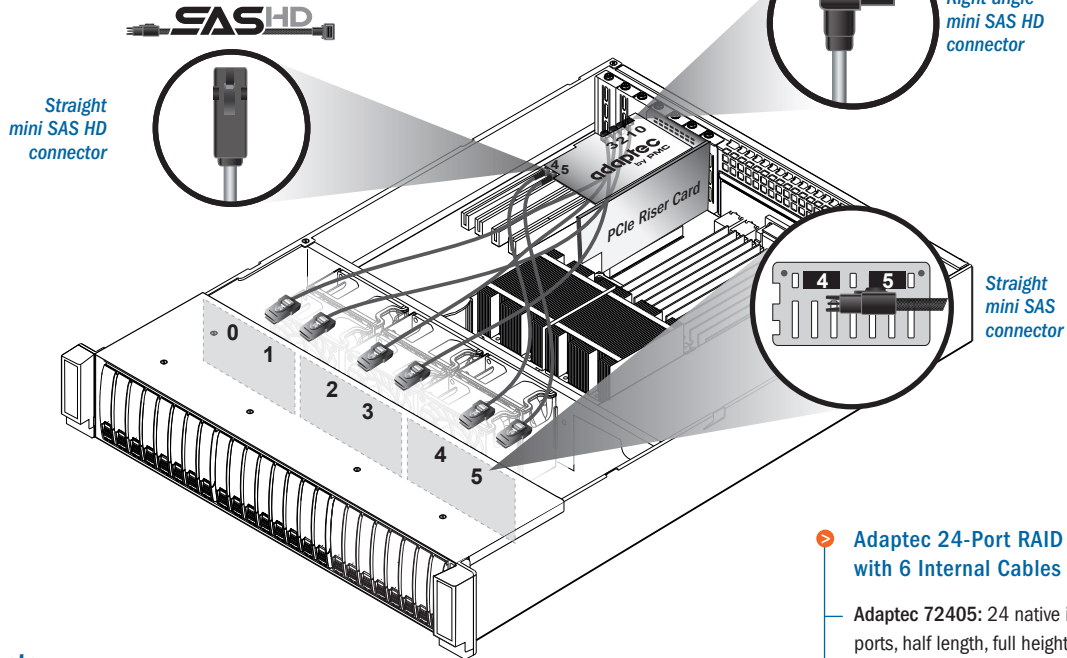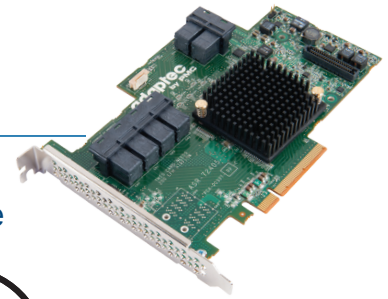# Adaptec 72405 Integration in 2U Chassis

Adaptec 72405 in riser card with right angle and straight mini SAS HD cable connectors in a generic 2U chassis with 24 storage bays for 2.5" drives with backplanes with mini SAS connectors

Straight mini SAS HD connector

Right angle mini SAS HD connector

Straight mini SAS connector

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 (SSF) drives for maximum storage capacity. 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 in to a PCI Gen3 slot, with 200 LFM airflow, with a PCIe riser card. It delivers maximum performance for up to 24 drives without the need of an expander.

- 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

The illustration above is specific to an Adaptec RAID card with 24 internal ports. Series 7 also offers a 24-port RAID adapter with 16 internal and 8 external ports (ASR-71685), you will find that integration guide at: http://www.adaptec.com/en-us/_common/compatibility/

> **Adaptec 24-Port RAID Card with 6 Internal Cables Configuration:**

— **Adaptec 72405:** 24 native internal SAS/SATA ports, half length, full height
Single Part Number: 2274900-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**

— **HDDs and SDDs** – check the compatibility guide at 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.