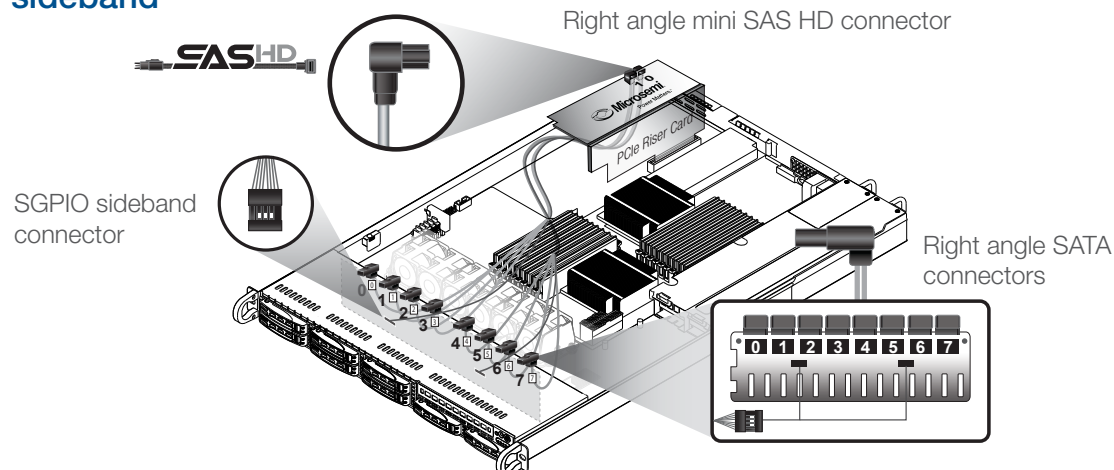# Microsemi Adaptec® 7805 in 1U Chassis

## A 7805 RAID adapter with right angle mini SAS HD cable connector in a generic 1U chassis with 8 storage bays for 2.5" drives with backplanes with right angle SATA connectors and sideband



Right angle mini SAS HD connector

SGPIO sideband connector

Right angle SATA connectors

### Requirements

1U chassis are one of the most challenging rack-mount configurations because of the very low profile footprint. This presents some challenges for RAID adapter cards with respect to:

- Height of the boards
- Limited performance of a PCIe Gen3 RAID card with expanders
- Cables with straight connectors

### Series 7 RAID Solution

- The 8-port RAID adapter, an MD2- Low Profile card, easily plugs into a PCI Gen3 slot, with 200 LFM airflow, in a 1U chassis.

- Microsemi's new right-angle connectors at the adapter end and also at the drive end, are an ideal solution for this super low profile chassis configuration. For more information on SAS HD cables visit: http://www.microsemi.com/products/storage/cables-accessories/cables-accessories.

The illustration above is specific to a RAID card with 8 internal ports. If a specific 1U chassis configuration contains a full height slot, the 24-port 71685 with 2 external connectors allows connectivity to an external JBOD without compromising performance and with no need for an internal expander.

### 8-Port RAID Card with 1 Internal Cable Configuration

- 7805: 8 internal native SAS/SATA ports, MD2-low profile. Single Part Number: 2274100-R

- The ACK-I-rA-HDmSAS-4rASATA-SB-.8M is an internal "right angle" Mini Serial Attached SCSI HD x4 (SFF-8643) to "right angle" (4) x1 Serial ATA 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: 2279900-R

- HDDs and SDDs – check the compatibility guide at: http://www.microsemi.com/products/storage/compatibility

- Flash Module AFM-700 Optional: add-on super capacitor module for maintenance-free cache protection with real-time monitoring