SATA II HDD Canister KISS DA 435
Quick Reference Guide

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2. Important Information

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Our product is warranted against defects in materials and workmanship for a period of one year from the date of shipment, as evidenced by receipts or other documentation. The manufacture at its option, repair or replace equipment that proves to be defective during the warranty period. This warranty includes parts and labor.
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Changes

The Manufacturer reserves the right to revise this publication and to make changes in the content hereof without the obligation of the manufacturer to notify any person of such revision or changes.

3. Safety Precautions

Before getting started, please read the following important cautions:

❑ All cautions and warnings on the equipment or in the manuals should be noted.

❑ Most electronic components are sensitive to electrical static discharge. Therefore, be sure to ground yourself at all times when installing the internal components. Use a grounding wrist strap and place all electronic components in static-shielded devices. Grounding wrist straps can be purchased in many electronic supply stores.

❑ Do not open the top cover of the system. If opening the cover for maintenance is a must, only a trained technician should do so. Integrated circuits on computer boards are sensitive to static electricity. Before handling a board or integrated circuit, touch an unpainted portion of the system unit chassis for a few seconds. This will help to discharge any static electricity on your body.

❑ Place this equipment on a reliable surface when install. A drop or fall could cause injury.

❑ Please keep this equipment away from humidity.

❑ Do not leave this equipment in an environment unconditioned, out of operation or storage temperature range may damage the equipment.

❑ Never pour any liquid into ventilation openings, this could cause fire or electrical shock.

❑ Make sure the voltage of the power source is within the specification on the label when connecting the equipment to the power outlet. The current load and output power of loads shall be within the specification.

❑ This equipment must be connected to reliable grounding before using.

❑ Place the power cord out of the way of foot traffic. Do not place anything over the power cord. The power cord must be rated for the product, voltage and current marked on the product's electrical rating label. The voltage and current rating of power cord should be greater than the voltage and current rating marked on the product.

❑ If the equipment is not used for a long time, disconnect the equipment from mains to avoid being damaged by transient over-voltage.

❑ Never open the equipment. For safety concerns, only qualified service personnel should open the equipment for maintenance.

❑ If one of the following situations arise, the equipment should be checked by service personnel:

    ✓ The power cord or plug is damaged.

    ✓ Liquid has penetrated the equipment.

    ✓ The equipment has been exposed to moisture.

    ✓ The equipment does not work well or will not work according to its user manual.

    ✓ The equipment has been dropped and/or damaged.

    ✓ The equipment has obvious signs of breakage.

    ✓ Please disconnect this equipment from the AC outlet before cleaning. Do not use liquid or detergent for cleaning. The use of a moisture sheet or cloth is recommended for cleaning.

Note: Product features and specifications are subject to change without notice.

4. Product Description

4.1. Key features

❏ Support four 3.5" SAS and/or SATA II hard disk drives (HDD) on 3 ODD Bays space.

❏ Support direct HDD Fault LEDs signal input (from HBA Card)

❏ Support HDD activity LEDs directly from SAS/SATA II HDD

❏ Enclosure Over-Temperature Alarm (Buzzer and LED).

❏ Adjustable Over-Temperature Threshold Setting.

❏ Fan Speed Control.

4.2. Checking list

Before removing the subsystem from the shipping carton, visually inspect the physical condition of the shipping carton. Exterior damage to the shipping carton may indicate that the contents of the carton are damaged. If any damage is found, do not remove the components; contact to the dealer where the subsystem was purchased for further instructions. Before continuing, first unpack the subsystem and verify that the contents of the shipping carton are all there and in good condition.

The package contains the following items:

❏ One set with HDD tray: x4 (Shipping without drive devices installed)

❏ Mounting screws: x1 set

❏ Jumper: x2

Note: Inspect the shipping cartons for evidence of physical damage. If a shipping carton appears damaged, request that the carrier's agent be present when the carton is opened. Keep all contents and packing materials for the agent's inspection.
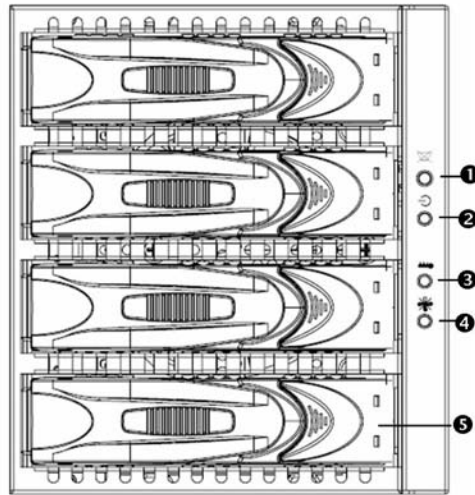
4.3. Front Panel Features
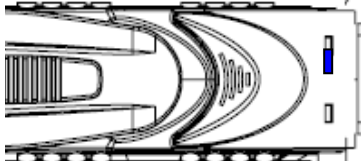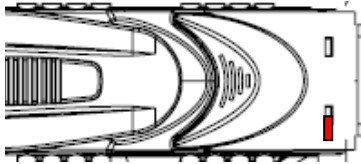
Fig. 1: front view of 3 to 4 canister

❶ Buzzer mute	❷ Power LED	❸ Over Temperature LED
❹ Fan Fail LED	❺ Drive tray	

4.3.1. LED indicators

| LED NAME	Color definition	Behavior
Power LED	Blue	On: when system is powered on Off: when system is powered off
Over Temperature LED	Red	On: when system temperature exceeds threshold temperature Off: when system temperature is normal.
Fan fail LED	Red	On: when system detected fan abnormality Off: when fan is normal operation
	HDD Activity/Ready: Blue color	On: when HDD is inserted and detected. Flash: when accessing HDD Off: when there is no HDD or no detection.
	HDD Failure: Red color	On: when HDD is detected as failure by host Flash: RAID rebuilding Off: when there is no HDD or normal (only supported on HBA)

4.4. Rear Panel Features
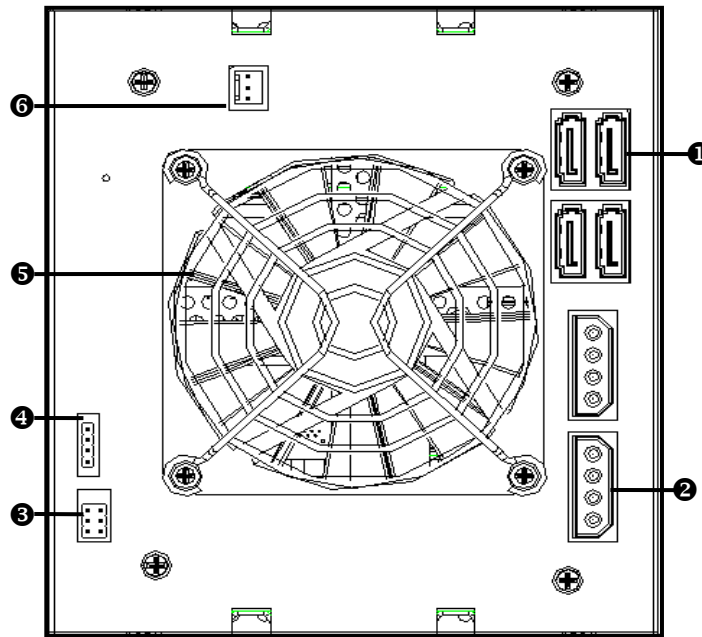
Fig. 2: frear view of 3 to 4 canister

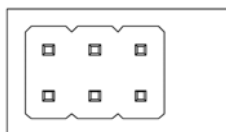|	
❶ SATA connector	❷ Power input connectors
❸ Over-Temp Threshold & Buzzer Setting	❹ HDD Fail LED Input
❺ Fan	❻ Fan connector

4.4.1. Power input connectors

Four-pin standard power connectors for +12V/+5V/GND

4.4.2. Over-Temp. Threshold & Buzzer Setting
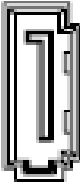
Setting for "Over-Temp." alarm threshold.

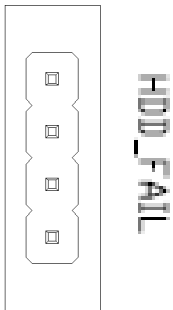| Pin Number	Description
1-2	50°C
3-4	45°C
5-6	Buzzer-Disable*

Note*: If you want to enable Buzzer alarm on Fan and Temperature Failure, this jumper has to be opened.

4.4.3. SATA Connectors

Standard 7Pin SATA connector to link to MB or HBA card.
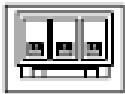
4.4.4. HDD Fail LED Input

Pin Number	Description
1	HDD 0 Fail Input
2	HDD 1 Fail Input
3	HDD 2 Fail Input
4	HDD 3 Fail Input

For some HBA supporting HDD Fail signal output. If used, this connecter should be connected with HDD Fault signal from HBA by external cable.

It's left to open, as default, when HBA doesn't support it.

4.4.5. Fan Connectors

Pin Number	Description
1	GND
2	+12V
3	Tach

A 3-pin fan connector with failure detection

5. Installation Overwiew

> **Warning**
>
> Before you remove or install the unit, make sure the unit is not turned on or connected to the AC power.

5.1. Removing the HDD Tray from the enclosure

1. Press the latch to the right by the thumb.
2. Pull the tray door outward by the forefinger at the same time.

3. Pull the HDD tray from the bay gently.
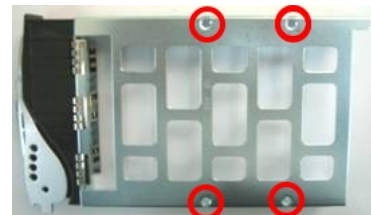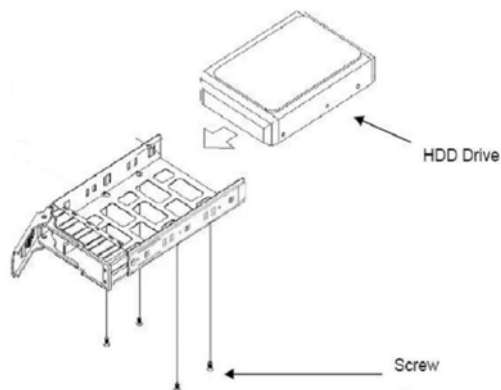4. Secure the HDD to the tray by using four mounting screws shown as below.

Fig. 3: Bottom view of HDD tray

5. Slide the HDD tray into drive slot until the handle is locked.

6. Repeat step 1 to 5 for all remaining HDD trays.