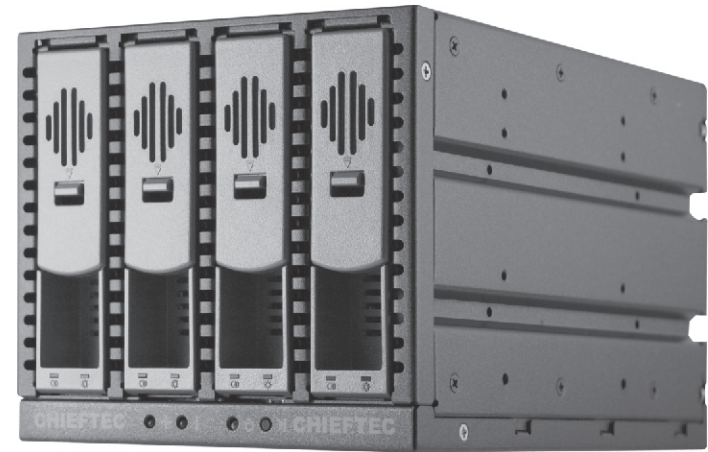
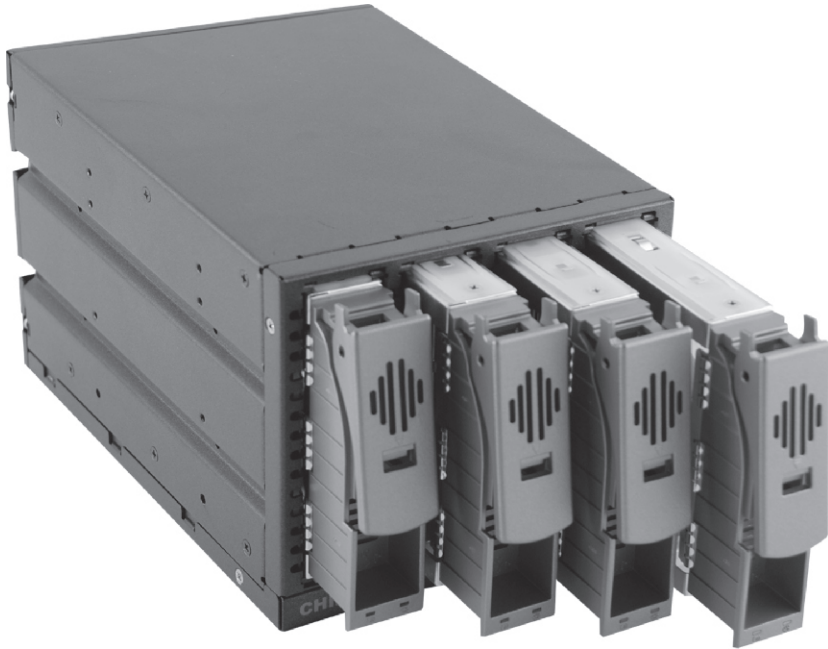




3-4 SAS/SATA II HDD BACKPLANE



SST-3141SAS



USER'S MANUAL

www.chieftec.com

Preface

Important Information

Warranty

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.

Manufacturer, at its option, repair or replace equipment that proves to be defective during the warranty period. This warranty includes parts and labor.

The media on which you receive software are warranted not to fail to execute programming instructions, due to defects in materials and workmanship, for a period of 90 days from date of shipment, as evidenced by receipts or other documentation. Manufacturer will, at its option, repair or replace software media that do not execute programming instructions if manufacturer receives notice of such defects during the warranty period. Manufacturer does not warrant that the operation of the software shall be uninterrupted or error free.

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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.

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 any electronic supply store.
- Do not open the system's top cover. 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 from away 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 ratings label. The voltage and current rating of the 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 reasons, only qualified service personnel should open the equipment.

- 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's 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.

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CHAPTER 1 INTRODUCTION

1.1 Key features

- Supports 4 x 3.5" SAS or SATA II drives into 3 x 5.25" bays.
- Supports fault LEDs direct from SAS/SATA II HDD.
- Supports HDD activity LEDs directly from SAS/SATA II HDD.
- Enclosure Over Temperature alarm (buzzer & LED).
- Adjustable Over Temperature threshold setting.
- With fan speed control by jumper setting.

1.2 Unpacking list

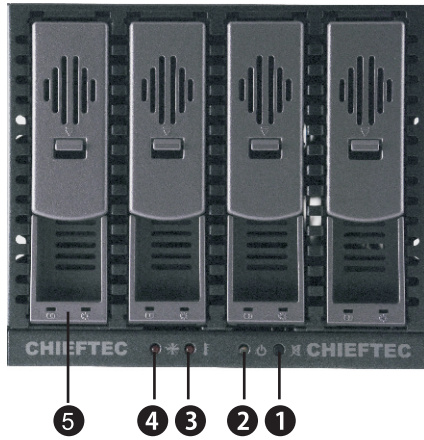
Before removing the subsystem from the shipping carton, visually inspect the physical condition of the shipping carton. Exterior damage to the shipping carton may indicate that the contents of the carton are damaged. If any damage is found, do not remove the components; contact the dealer where the subsystem 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 x 4 (Shipping without drive devices installed)
- Mounting screws x 1 sets
- Jumper x 2

Note : Inspect the shipping cartons for evidence of physical damage. If a shipping carton appears damaged, request that the carriers agent be present when the carton is opened. Keep all contents and packing material for the agents inspection.






1.3 Front Panel Features



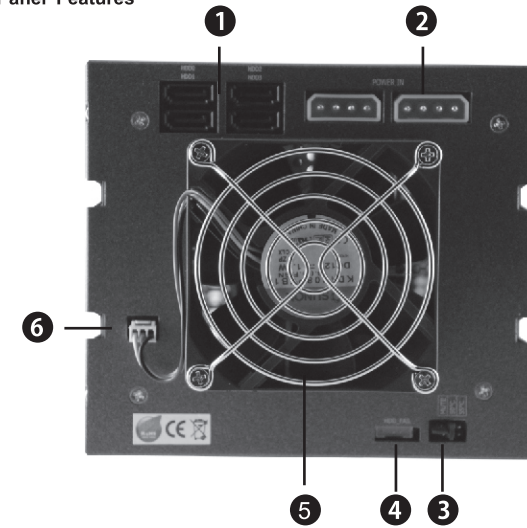
1.3.1 front view of 3 to 4 BACKPLANE

- | | | |
|----------------|--------------|------------------------|
| 1 Buzzer mute | 2 Power LED | 3 Over Temperature LED |
| 4 Fan Fail LED | 5 Drive tray | |

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 is higher than 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)

1.4 Rear Panel Features



1.4.1 rear view of 3 to 4 BACKPLANE

- | | |
|--|--------------------------|
| 1 SATA connector | 2 Power input connectors |
| 3 Over-Temp Threshold & Buzzer Setting | 4 HDD Fail LED Input |
| 5 Fan | 6 Fan connector |

More details as below

SATA Connectors



Standard 7Pin SATA connector to link to MB or HBA card.

Power input connectors



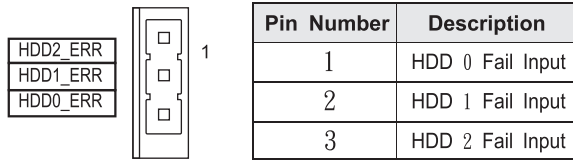
Four-pin standard power connectors for +12V/+5V/GND

SATA Connectors



Standard 7Pin SATA connector to link to MB or HBA card.

HDD Fail LED Input



For some HBA supporting HDD Fail LED . If used, the jumper is used to connect to cathode of the diode for HDD Fault output from HBA.

It left to open, as default, when HBA doesn support it.

Fan Connectors



Pin Number	Description
1	GND
2	+12V
3	Tach

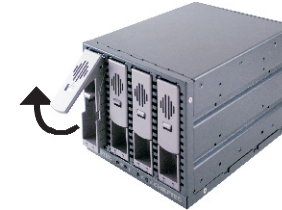
A 3-pin fan connector with failure detection

CHAPTER 2 INSTALLATION OVERVIEW

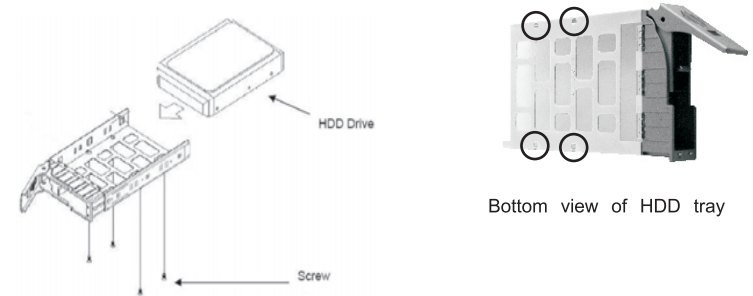
Warning : Before you remove or install the unit, make sure the unit is not turned on or connected to the AC power.

2.1 Removing the HDD Tray from the enclosure

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



3. Remove the HDD tray from the enclosure
4. Install the four mounting screws to secure the drive in the disk tray.



5. Slide the tray into a slot. Press the tray handle until the latch is closed and locks into place.

