



ACT-DASR101 Disk Array Series products

Quick Installation Guide

VER:1.0



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Table of contents

1.Introduction	4
1.1.1 Introduction.....	4
1.1.2 Specification.....	4
1.1.3 ACT-DASR101 Series products.....	5
2. Hardware Installation	6
2.1 Identify RAID Subsystem part.....	6
2.2 Quick Installation guide.....	7
2.2.1 HDD Installation.....	7
3. Configure RAID Subsystems	8
3.1 Configuration methods.....	8
3.1.1 Using LCD Module(LCM).....	8
4.Connect ACT-DASR101 TO PC	11
4.1 Connect ACT-DASR101 to pc.....	11
4.2 Connect ACT-DASR101EE/EEU to pc.....	11
5.LCM configuration menu	12
5.1 LCM menu tree.....	12
5.2 LCM menu.....	12

1. Introduction

1.1.1 Introduction

ACT-DASR101 is specifically for personal video/audio, editing storage and DVR Raid storage applications. It allows easy scalability from JBOD to RAID, It can be configured to RAID levels 0,1 and Smart Copy. The RAID function allows one HDD failure without impact on the existing data and failed drive Data can be reconstructed from the remaining data and parity drives. RAID configuration and monitoring can be done through the LCM front control panel .

For ACT-DASR101,that is a internal platform. The RAID subsystem controller is designed to fit in a two 5.25" half-height drive bay for easy built-in the pc server.

For ACT-DASR101E series is a RAID tower platform, It features two 3.5inch SATAII disk drives with RAID 0,1, Smart Copy .and connects to the host system through and eSATA or USB/IEEE1394 interface.

For ACT-DASR101 series RAID subsystem, that is also a standard part of all major operating systems such as xp/2000/2003 server, Mac, Linux, etc, the host system does not require additional or proprietary software to work with the controller.

1.1.2 Specification

Host Interface

- ◎ one 3.0Gbps SATA port/one ATA 133 IDE port

※ Disk interface

- ◎ Two 3.0Gbps SATA ports(for 2.5" / 3.5" HDD)

※ RAID Features

- ◎ RAID levels:0,1,Smart Copy
- ◎ HDD hot-swap
- ◎ Automatic online background data rebuilding
- ◎ Automatic disk failure detect
- ◎ Array roaming
- ◎ Rebuilding speed rata:250GB per hour(Max.)

※ Management

- ◎ Driverless: need no driver on host side
- ◎ LED indicators for Disk status display
- ◎ LCD control panel for operation status display
- ◎ RAID level configuration and selection by LCD panel
- ◎ NVRAM for event log and system configuration setting

※ Dimension: 210x 146 x 86mm

ACT-DASR101 Series products

Type	Model	Host Interface	LCD	Raid Features
 Internal	ACT-DASR101	IDE/SATAII	Standard part	<ul style="list-style-type: none"> ▶ Two 3.0Gbps SATA ports (for 2.5" /3.5" HDD) ▶ RAID levels:0,1, Smart Copy ▶ Supports more than 2TB Bytes RAID drive ▶ HDD hot-swap ▶ Rebuilding speed: 250GB/hour ▶ Supports Hot Spare on RAID ▶ Array roaming ▶ Supports partial / slumber power saving mode ▶ Supports on-line command based bad sector recovery ▶ Supports staggered spin-up ▶ Support Device Status LEDs (Error, Activity/Link)
	ACT-DASR101EE	eSATA		
 Tower	ACT-DASR101EU	USB2.0		
	ACT-DASR101EEU	eSATA/USB2.0		

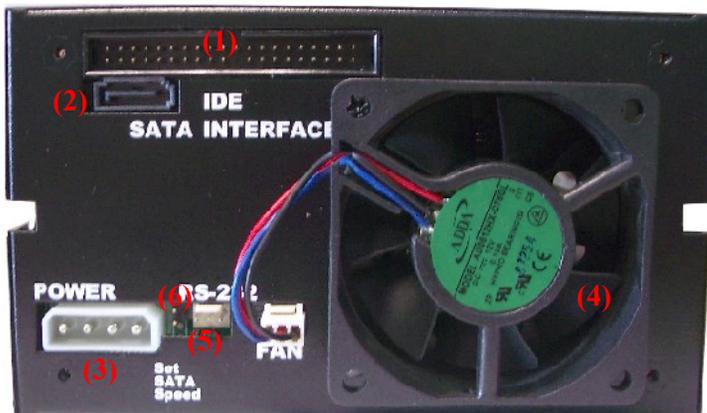
2. Hardware Installation

2.1 Identify RAID Subsystem part step 1. Front View



- (1) TRAY 1
- (2) TRAY 2
- (3) LCD MODULE
- (4) TOP KEY-LOCK
- (5) BOT KEY-LOCK
- (6) TOP HDD Link & Access LED
- (7) BOT HDD Link & Access LED
- (8) Alarm

step 2. Back Side

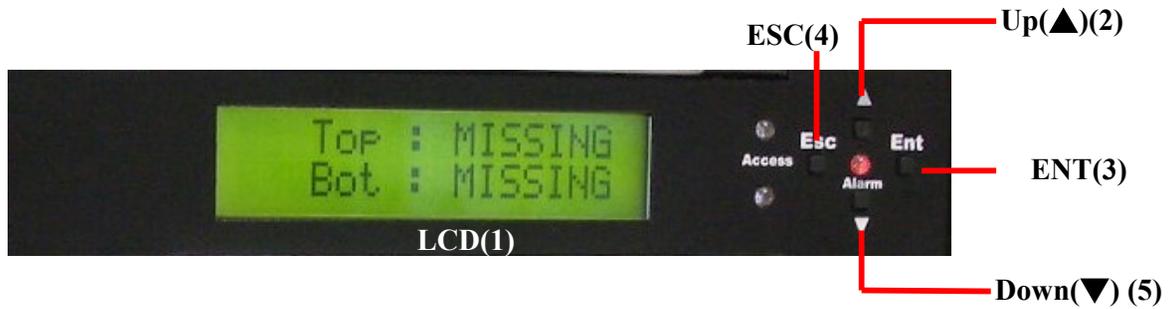


- (1) IDE Host Channel Adapter Port
- (2) SATA Host Channel Adapter Port
- (3) 4pin power connector
- (4) Fan
- (5) RS-232 PORT
- (6) SATA TRANSFER SPEED

JUMPER OPEN : 3.0G

CLOSE : 1.5G

step 3. LCD Module



There are 4 keypad buttons and an LCD on the panel of ACT-DASR101

- 1.It shows all functions and messages
- 2.It is used to scroll up through functions or menus
- 3.It is used to execute a selected function
- 4.It is used to cancel a selected function
- 5.It is used to scroll Down through functions or menus

2.2 Quick Installation guide

2.2.1 HDD Installation

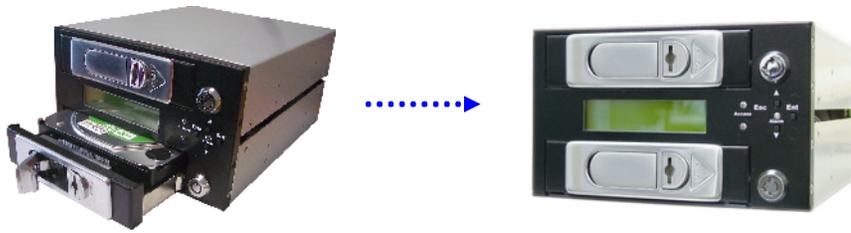
step 1. Press slide lock Right



Step 2. Attach screws



step 3. Press tray handle on Sliding the tray with hard drive into the enclosure



step 4. Mounting RAID Subsystem in system

step 5. Connecting RAID Subsystem power

step 6. Connecting RAID Subsystem to Host channel (SATA/eSATA /USB2.0)

3. Configure RAID Subsystems

You can configure RAID Subsystem either through the LCD configuration utility.

3.1 Configuration methods

3.1.1 Using LCD Module(LCM)

The LCM is the primary user interface for the RAID subsystem, All configuration and management of the controller and it's properly connected disk arrays can be performed from this interface.

The quick RAID setup flow chat is showed as following:

Power on
Utran V1.16
RAID 1

After Initial

Top : OK
Bot : OK

Rebuilding
Rebuild OK
Rebuilding
X TO Y ZZ%

MAIN Page

MENU 1

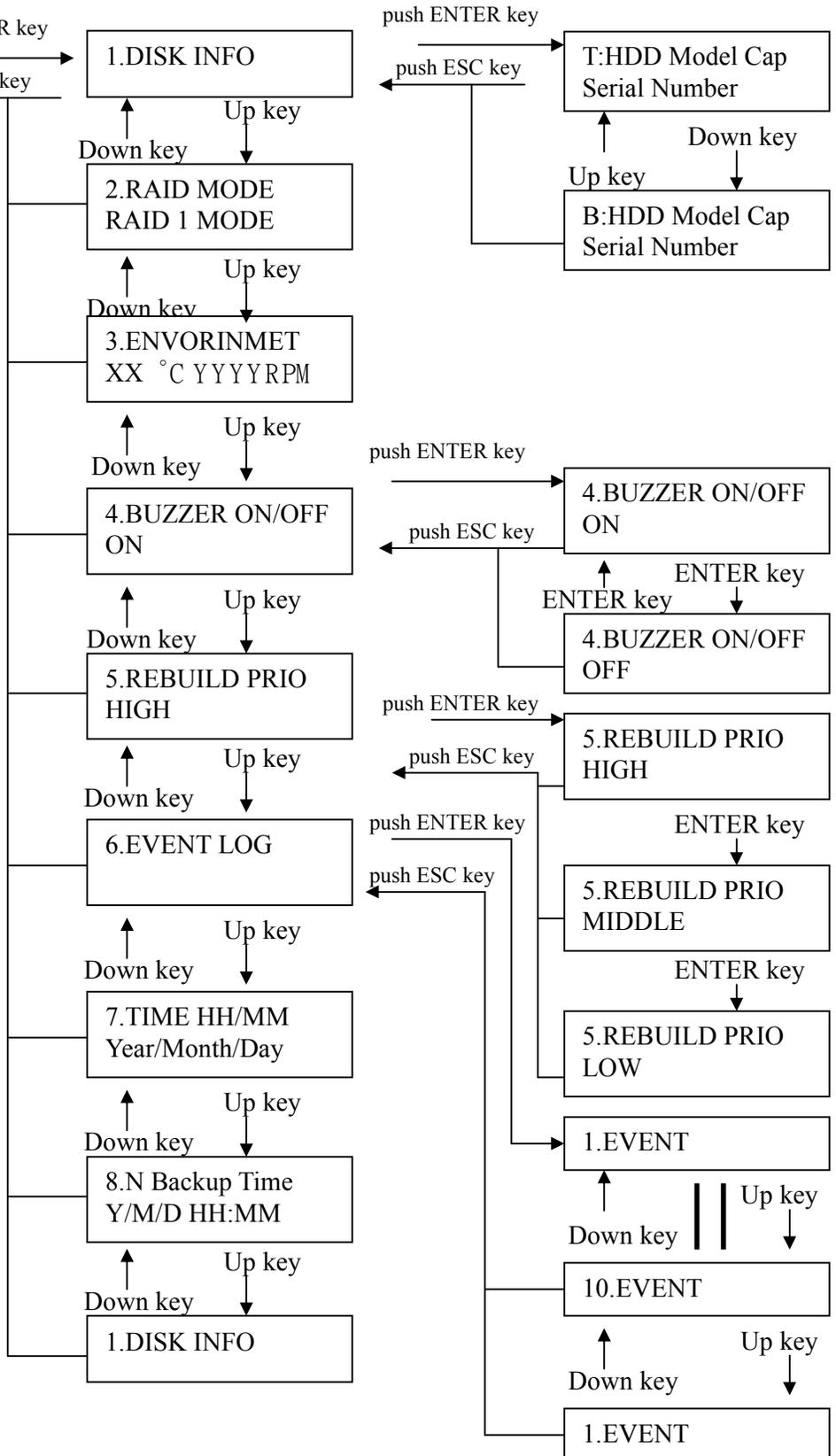
EVENT LOG Format

**1.T B REASON
YYYY/MM/DD HH/MM**

**TOP HDD
BOT HDD
REASON :**

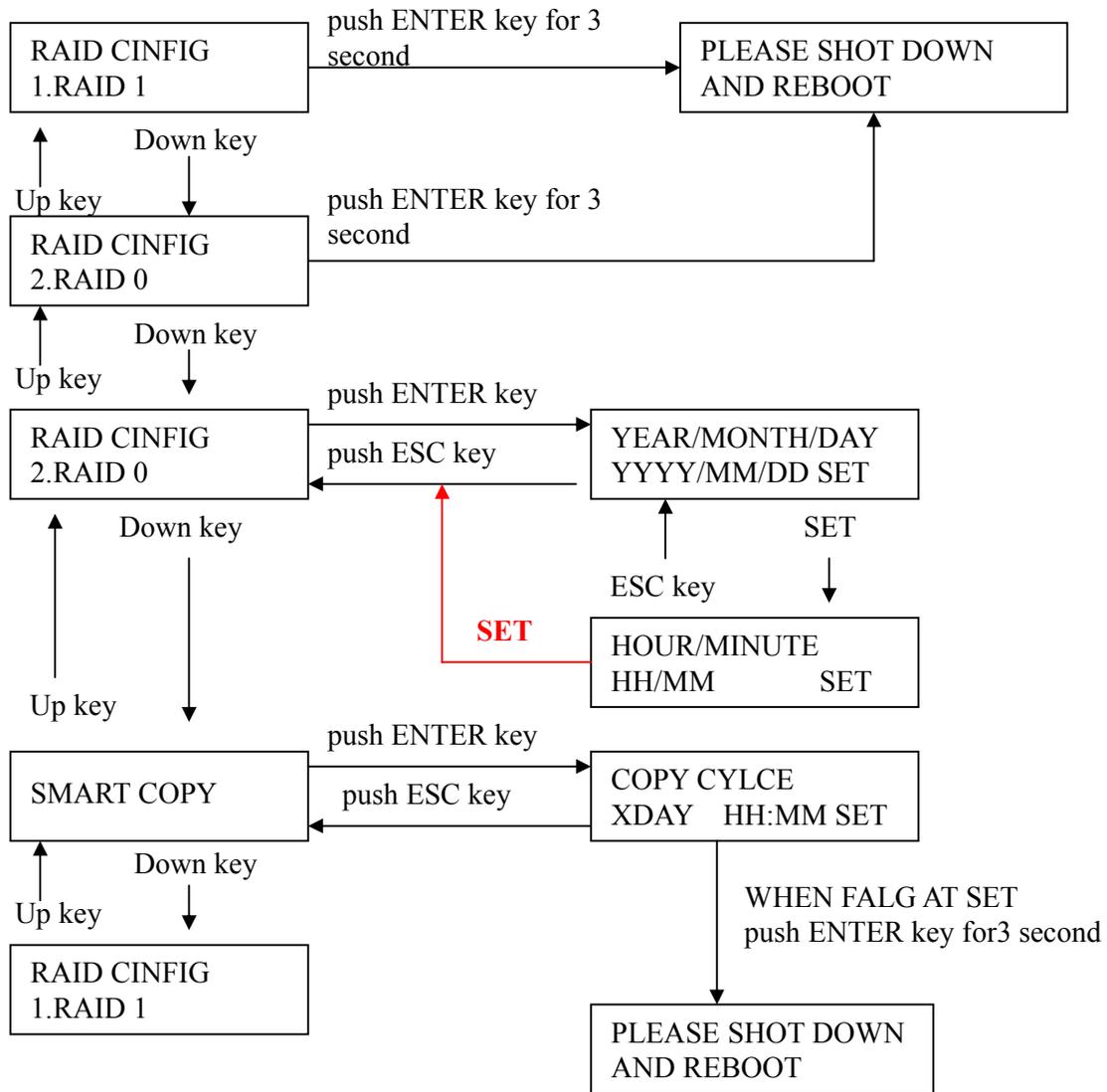
**1.NO HDD
2.FAIL
3.BAD SECTOR
4.INSERT
5.REBUILD OK**

**Then in any menu, not pressed
any key within 10 seconds that
the return to the main screen.**



MENU 2

Push ENTER key for 3 second enter to set RAID mode



4. Connect ACT-DASR101 TO PC

4.1 Connect ACT-DASR101 to pc

1. Open the pc case, insert ACT-DASR101, and connect two 4-PIN power cords to make ACT-DASR101 work well.
2. Connect a SATA cable to the SATA port of the system board.
3. Connect the other end of the SATA cable to ACT-DASR101.
4. Fasten with 12 screws, and close the pc case.

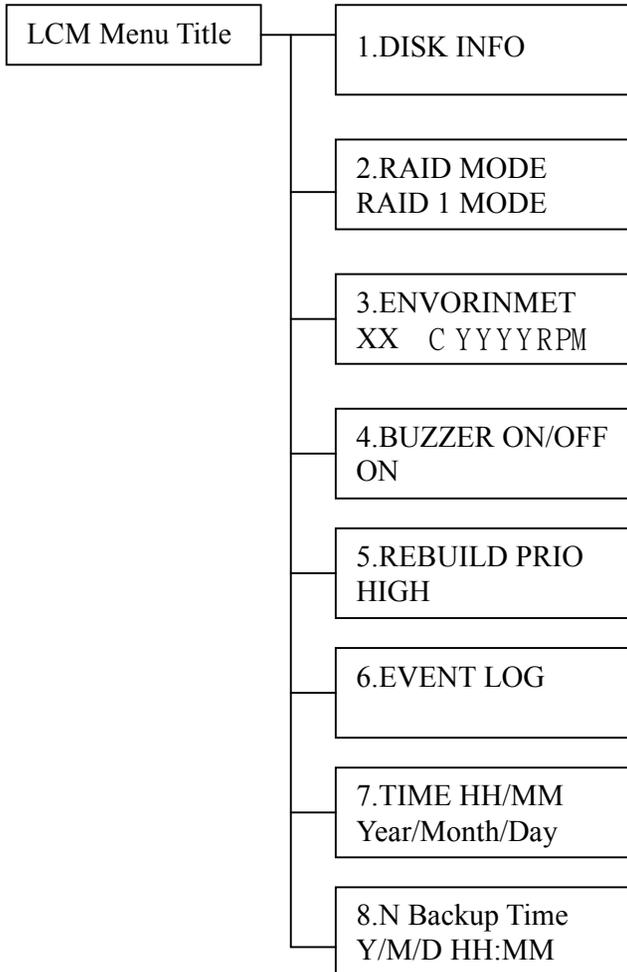
4.2 Connect ACT-DASR101EE/EEU to pc

1. Insert one end of the eSATA cable into the eSATA port of the pc system, and the other end into the eSATA port of ACT-DASR101EE/EEU.
2. Connect the power cord.

Once installing successfully, you can find ACT-DASR101 as a non-initial Disk in "Disk manager" under "my computer" and then to Format this Disk.

5. LCM configuration menu

5.1 LCM menu tree



5.2 LCM menu

LCM Menu Title	1. DISK INFO		5. REBUILD PRIO
	2. RAID MODE		6. EVENT LOG
	3. ENVORINMET		7. TIME HH/MM
	4. BUZZER		8. N Backup Time