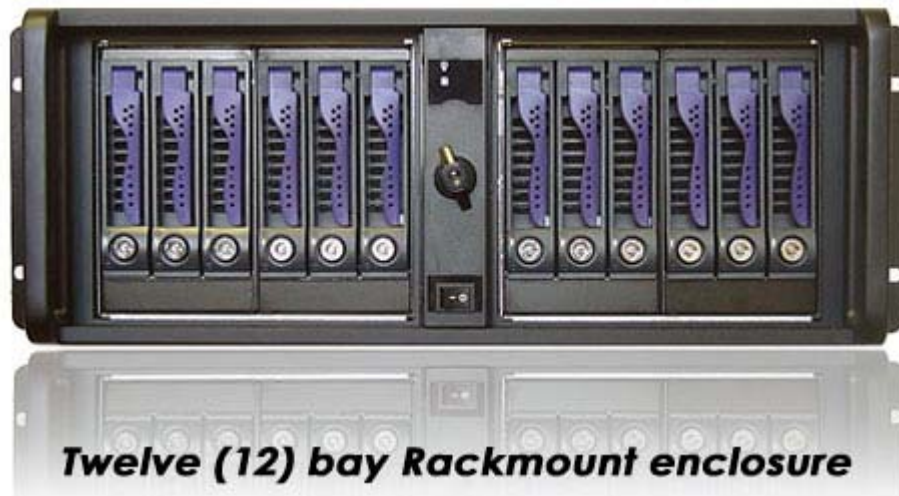


RM12_1394B



User Manual

Ver 1.0 - Date: 02/2006

<http://www.datoptic.com>

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Unpacking RM12_1394B:

Open the DATOptic RM12_1394B box and carefully remove the RM12_1394B unit and accessories, the RM12_1394B and accessories including the following items:

- RM12_1394B unit x1
- 1394B Cable x1
- 1394B PCI Card x1 (Optional)
- Power Cable x1
- Screws and screwdriver (HDD tray unlock tool) kit
- Downloadable Manual & Drivers (were needed) kit

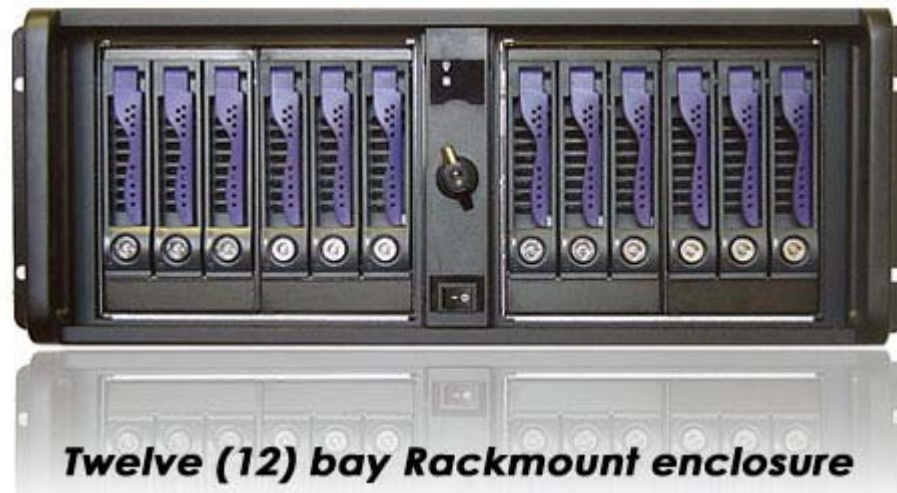
Chapter 1 Introduction

1.1 Overview

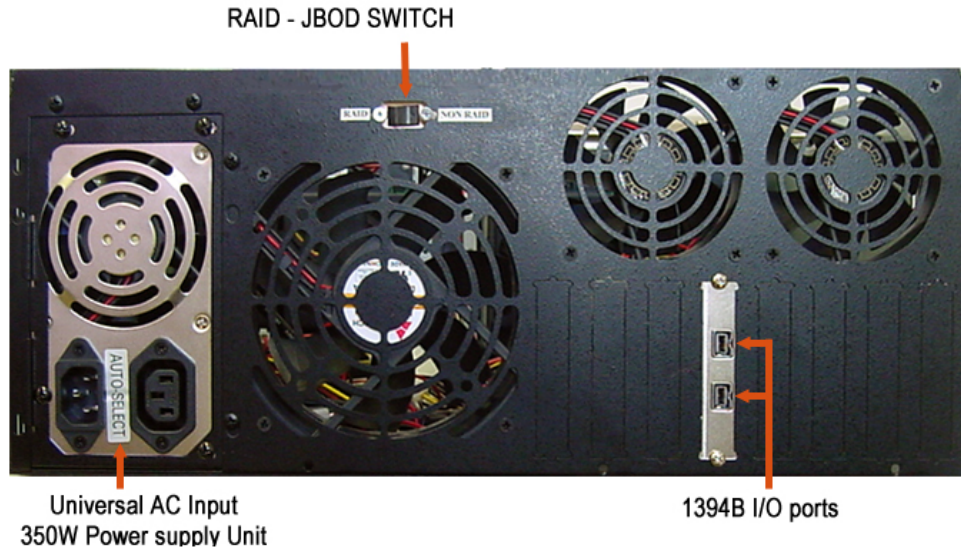
The DATOptic.com RM12_1394B is an easy-use and cost-effective 3.5" IDE Hot-swappable hard disk drive storage enclosure that can be used as IEEE1394B mass storage device, delivering of large amounts of expandable storage space. An ideal for large storage libraries, digital video & digital audio files, backups and flexibility to grow with your storage needs.

RM12_1394B is ideal for data centre, departmental and DVR server users who need a flexible, universal storage enclosure that utilizes a common storage building block for their current and future data needs. RM12_1394B near-line storage systems intended for use with servers delivering large business data storage and applications with which require excellent accessibility, serviceability, and large storage capacity.

Front View



Rear View



1.2 Key Feature

- IEEE1394B (FireWire) interface;
- 4U rack height;
- Supports up to twelve (12x) 3.5" IDE/PATA disk drives;
- Supports 48Bit LBA – drives larger than 130GB (up-to 500GB)
- Excellent cooling system ensures the drives' reliability;
- Hot-swappable disk drive tray with special designed power-off and lock mechanism;
- Monitor and alarm notification for temperature and fans

1.3 Specification

Model DATOptic.com RM12_1394B

Construction Heavy duty 1.2mm steel, meets FCC/CE Class

Drive Bay 12 x hot-swappable IDE slim drive bays

Interface IEEE1394B (FireWire)

Cooling Fan Three 70mm fans

Switch Power ON/OFF x 1

Indicator HDD Power x 12, HDD Data Access x 12,

Temperature monitor, fan monitor

Maximum Storage Capacity 6000GB/ 6 terabytes

Data speed 800Mb/ps

RAID Support RAID0 and JBOD selectable

O/S Supported FireWire 400/ FireWire 800

Mac OS, Windows NT, Windows 2000, Windows XP,

Windows 2003, Linux, Solaris, Novell

Any operating system that supports FireWire

Dimensions (W x D x H) 19" x 18.5" x 6.89" (483mm x 470mm x 175mm)

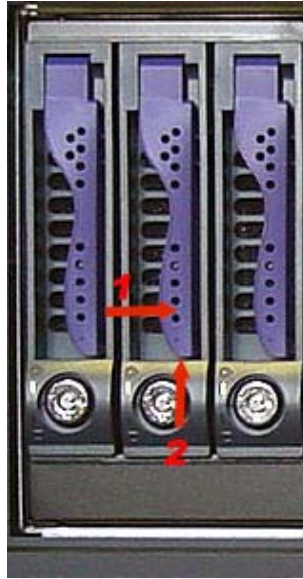
Temperature Range Operating 41°F to 104°F (5°C to 40°C)

Shipping -31°F to 167°F (-35°C to 75°C)

Weight 35 lb / 16 kg (without hard drive)

Chapter 2 Installation Introductions

1. Using included key unlock drive carrier, push the leveler to right and lift it up to release the handle, and then withdraw the drive carrier.



2. Set the jumpers of all the drives to the mode of "Master or Slave"
When **RM12_1394B** is in RAID0 mode, we recommend using identical hard drives but mixed types and sizes will also work.
3. Connect the power and IDE connectors with the drive; fasten the drive with four screws (Please keep the space between the drive and the temperature sensor).
4. Put the drive carrier back to the chassis; push the handle back to lock the drive carrier.
5. Install the 1394B card of the accessory in your computer; use the 1394B cable (included) to connect 394B port with the 1394 card. There are two 1394B ports and one 1394A in the 1394 card
6. 1394B port offer transfer rate at 800mbps where 1394A offer transfer rate at 400mbps, we recommend to use 1394B port instead of 1394A
7. Daisy chain ability, we can

Chapter 3 System Starting

3.1 Indicators and Switch

3.1.1 LED Indicators Power LED (Green): Always on

Data Access LED (Yellow): Flashing when data's writing or reading

3.1.2 Alarm Indicators

Temperature Monitoring:

This indicator stays green when the operating temperature inside the chassis is normal (under 105°F). It will turn red when it is over the normal operating temperature.

Fan Monitoring:

When the fans operate normally, this indicator stays green. It will turn red when one of the fans malfunction or stop working.

POWER LED Data Access LED

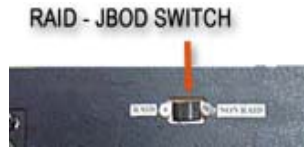
3.1.3 Switch

3.1.3.1 SW: Alarm Reset

The alarm will go off when the operating temperature is above limit or one of the fans stop running. You may select to stop the alarm by pressing the SW and have the system running continually (NOT RECOMMENDED).

3.1.3.2 RAID0 NO: RAID0 Switch

PLEASE TURN OFF THE POWER BEFORE CHANGE THE POSITION OF SWITCH



Switch to "RAID0" (the left side of "RAID0 NO"), **RM12_1394B** is in the "RAID" mode.

Switch to "NO" (the right side of "RAID0 NO"), **RM12_1394B** is in the JBOD mode.

Special Notes:

1. DO NOT force to remove drive carrier, it will cause damage if removing the drive carrier from the chassis before unlocking the carrier by using the proper key
2. Although **RM12_1394B** supports hot swappable, never withdraw a HDD that is being read or written. Before you want to disconnect 1394 cable or withdraw a HDD, please make sure data transmission has been completed.
3. For the best result of ventilation inside the chassis, please don't open the case while **RM12_1394B** is operating.