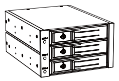
装訂成本

90mm 90mm 120mm

MRA503X-12G

3x3.5"SATA/SAS 12G HDD Enclosure



MRA503-12G: 硬盘仓带独立电源开关
MRA503N-12G: 硬盘仓无独立电源开关

说明书｜User Manual

目　　录
Table of Contents

中文

产品介绍 ------------------ 01~03
安装步聚 ------------------ 04
插入硬盘 ------------------ 05
退出硬盘 ------------------ 06
产品功能说明 ---------------- 07~08
注意事项 ------------------ 09

ENGLISH

Introduction ---------------- 10~12
installation ---------------- 13
Inserting Hard Drive ----------- 14
Removing Hard Drive ----------- 15
How to use ---------------- 16~17
Cautions ------------------ 18

产品介绍

MRA503X-12G 3.5寸3盘位SATA/SAS硬盘抽取盒是一款占用2个5.25寸光驱位空间，可容纳3颗3.5寸硬盘的存储扩展产品；产品内外采用金属材质，坚固耐用；免工具抽取设计，实现快速更换硬盘；带独立电源开关、6公分风扇配合智能温控主动散热；硬盘仓门带锁，保护硬盘使用安全，；这是一款可应用于严峻环境、高性能、高稳定性要求的存储产品。

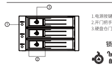
产品规格

- 传输介面: SATA
- 支持硬盘: 3.5寸SATA 6Gbps/SAS 12Gbps硬盘
- 产品材质: 铝合金外壳和轨道、PC塑胶门、钢板后盖
- 应用系统: Windows、Mac
- 指示灯: 硬盘电源灯、读写灯、风扇 故障、温度超限
- 產品尺寸:210(L)x148(W)x86(H)mm
- 工作温度:0~55℃

包装内容

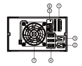
MRA503X-12G产品	1 pcs
硬盘仓钥匙	2 pcs
SATA数据线	3 pcs
说明书	1 pcs
机箱固定螺丝	8 pcs

前面板



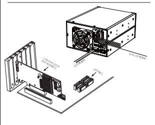
1.电源按键/指示灯
2.开门把手
3.硬盘仓门锁

后面板



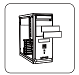
1.SATA 15P电源接口
2.硬盘读写指示灯开关
3.风扇转速模式开关
4.SATA接口
5.報警溫度設定
6.蜂鸣器OFF/ON開闢
7.风扇

产品背部接线

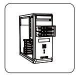


1、SATA to SATA数据线连接产品到主板上的SATA接口
或者用MiniSAS to SATA数据线连接产品到MiniSAS板卡接口（产品无附MiniSAS卡和MiniSAS to SATA数据线）
2、将机箱电源SATA电源线插入到产品SATA 15P电源接口
(当3颗3.5寸硬盘同时工作时，建议使用两组电源供电线为产品提供电力）

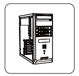
安装步骤



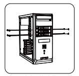
1. 取出机箱上2个闲置光驱位面板



2. 按如图方向将产品插入光驱槽位

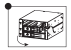


3. 产品面板推至与机箱面板齐平

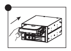


4. 产品两侧用螺丝锁到机箱上

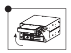
插入硬盘



确认硬盘仓门锁处于解锁状态，用手拉起开门把手，门组向右旋转，开启到最右边.

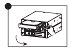


硬盘接口朝前、硬盘电路板一面靠下，按此方向插入硬盘，并推入到硬盘槽底部.

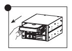


手推动门组向左旋转，硬盘也同步被门推入，下压开门把手关好门.
用钥匙对硬盘仓门上锁。

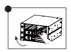
退出硬盘



用钥匙将硬盘仓门锁旋转至解锁状态，用手拉起开门把手，使力让门组向右旋转开启到最右边，硬盘己从槽中伸出.



用手拿出硬盘.



手推动门组向左旋转，下压开门把手关好门.

产品功能说明

● 独立电源开关 (仅MRA503-12G版本)

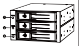
长按电源按键3秒，开启或关掉对应的硬盘电源

注意：
硬盘槽中必须先插入硬盘，否则长按电源按键无作用；在没有关掉硬盘电源的情况下，直接拔出硬盘，将自动断电，重新插入硬盘，需要再通过长按电源按键来开启硬盘电源。

● 全开全关功能 (仅MRA503-12G版本)

第一键在一秒内快速按三下，
三颗硬盘的电源全部打开，从第一颗硬盘到第三颗硬盘，顺序启动。

第三键在一秒内快速按三下，
三颗硬盘电源同时全部关闭。



● LED指示灯

电源指示灯	硬盘电源开启后，蓝色指示灯常亮
读写指示灯	蓝色指示灯闪烁
风扇故障时	橙色指示灯闪烁，蓝橙交替闪烁
温度超限时	红色指示灯闪烁，蓝红交替闪烁

● 风扇故障报警

风扇故障时，蜂鸣器发出声音，橙色指示灯闪烁，任意一个电源按键按一下，蜂鸣器报警声就停止，但橙色指示灯会维持闪烁，直到故障排除。

● 温度超限报警

温度超过上限设定值时，蜂鸣器发出声音、红色指示灯闪烁，任意一个电源按键按一下，蜂鸣器报警声就停止，但红色指示灯会维持闪烁，直到温度降到设定值以下.

● 硬盘盒断电记忆功能

产品断电后重新通电，产品电源会自动重启，恢得断电前硬盘所处状态.

● 硬盘读写指示灯开关

OFF ON
ACTIVITY LED

OFF-无硬盘读写指示灯
ON - 有硬盘读写指示灯

● 风扇转速模式开关

AUTO HIGH
FAN

Auto模式: 产品内部温度达到30度时，风扇开始慢速转动，随着温度升高，转速越来越快，当产品内部温度达到40度时全速运转.

High模式: 产品内部温度达到30度时，风扇全速运转.

(产品刚通电时，风扇会自检运行几秒钟后再停止)

● 蜂鸣器报警开关

ON
OFF
BUZZER

OFF-蜂鸣器报警声音关闭
ON - 蜂鸣器报警声音开启

● 温度上限值报警设定

65℃
60℃
55℃
TEMP

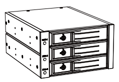
55. 60. 65度三段为报警温度设定值，当产品内部温度达到设定值时，蜂鸣器发出声音，指示灯同步闪烁.

注意事项

1. 插入硬盘前，要先确认清楚硬盘正确插入方向，方向不正确，无法正常关门，强行关门会造成产品损坏；
2. 产品自带的风扇有配合智能温控系统一起工作，更换其它型号的风扇会影响产品功能；
3. 硬盘长时间工作，外壳温度会很高，在拔出硬盘前，先关掉硬盘电源，过几分钟后再拿硬盘，以免烫伤手。硬盘属于高精密器件，使用过程中应轻拿轻放。

MRA503X-12G

3x3.5"SATA/SAS 12G HDD Enclosure



MRA503-12G: With power switch
MRA503N-12G: W/O power switch

说明书｜User Manual

目　　录
Table of Contents

中文

产品介绍 ------------------ 01~03
安装步聚 ------------------ 04
插入硬盘 ------------------ 05
退出硬盘 ------------------ 06
产品功能说明 ---------------- 07~08
注意事项 ------------------ 09

ENGLISH

Introduction ---------------- 10~12
installation ---------------- 13
Inserting Hard Drive ----------- 14
Removing Hard Drive ----------- 15
How to use ---------------- 16~17
Cautions ------------------ 18

Introduction

The MRA503X-12G fits three 3.5" SATA/SAS SSD/HDD in two 5.25" spaces. It can be used in harsh environments and is ideal for systems integrators and supercomputer companies who are looking for high performance and high stability of their data storage.

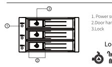
Specifications

- Host connector: SATA
- Supported HDD type: SATA I/II/III (6Gbps) and SAS I/II/III (12Gbps) HDD
- Material: Aluminum, SGCC, SUS430, PC
- Operating Systems: Windows/Mac
- LED indicator: Power / HDD access / Fan Failure / Temperature Alarm
- Product Dimensions: 210(L)x148(W)x86(H)mm
- Operating Temperature: 0 ~55°C

Package Content

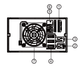
MRA503X-12G	1 pcs
Key	2 pcs
SATA Data cable	3 pcs
User manual	1 pcs
Frame screw	8 pcs

Front view



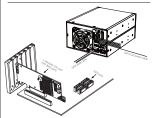
1. Power switch / LED indicator
2.Door handle
3.Lock

Back view



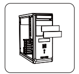
1.SATA power port
2.HDD activity indicator switch
3.Fan speed switch
4.SATA port
5.Temperature alarm setting
6.Buzzer switch
7.Fan

Connect the Cables

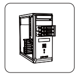


1、Connect the enclosure to the SATA host ports with the included SATA data cables. Or connect the enclosure to the SAS host port with a Mini SAS HD cable SFF-8643 to 4x SATA. (Note: Mini SAS 12G card and Mini SAS HD cable are not included)
2、To power with two separate SATA power cables. (Note: It requires more power to allow three 3.5" SATA/SAS SSD/HDD working at the same time, be sure to connect two SATA power ports with two separate SATA power cables)
Note:
1、12 Gbps SAS Host Bus Adapter card with Mini SAS HD SFF-8643 connector and one Mini SAS HD Cable (SFF-8643 to 4x SATA) are required to support SAS drives.

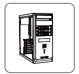
Hardware Installation



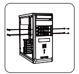
1. Remove the panel from the available 2 x 5.25" bay.



2. Insert the enclosure into the bay as shown in the figure.

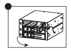


3. The enclosure panel is flush with the chassis panel.

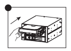


4. Fix four screws on each side, eight screws in total.

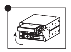
HDD Installation



If the door is locked, use the key to unlock it by rotating the key clockwise. Then pull the door handle and open it.

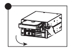


Insert the HDD with the hard drive label (printed) side up and push it into the enclosure.

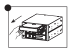


Close the door and lock the door if needed.

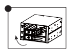
Ejecting the HDD



If the door is locked, use the key to unlock it by rotating the key clockwise. Then pull the door handle and open it.



Take the HDD out from the enclosure.



Close the door and lock the door if needed.

How to use

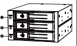
● Independent power switch (Only MRA503-12G)

1.1 Press the power switch button for 3 seconds to power on or off the bays, it only works under the HDDs are in the device.
1.1 The power will be off automatically when the HDD is ejected. The power needs to be power on again when the HDD is inserted back.

● Power on / off for all bays (Only MRA503-12G)

Power on all three bays by press 1st bay power switch for 3 times.
The power will be on serially.

Power off all three bays by press 3rd bay power switch for 3 times.
The power will be off at once.



● LED indicator

Power indicator	Blue LED is on steady.
Activity indicator	Blue LED is blinking.
Fan failure	Blinking orange for Fan failure, alternating orange and blue flashing.
Temperature	Blinking red when temperature is above the setting, alternating red and blue flashing.

● Fan failure alarm

When the fan fails, the buzzer is on, orange LED is blinking. Press any power switch button to stop the buzzer. Orange LED will be off when the function is back to normal.

● Temperature alarm

When the temperature is above the setting, the buzzer is on, red LED is blinking. Press any power switch button to stop the buzzer. Red LED will be off when the temperature is below the setting.

● Memorize function

Once the enclosure is re-started, the HDD status will return automatically.

● HDD activity indicator switch

OFF ON
ACTIVITY LED

OFF- Turn off the activity indicator
ON - Turn on the activity indicator

● Fan speed switch

AUTO HIGH
FAN

AUTO : When the internal temperature reaches 30 °C, the fan starts running. Fan speed will be adjusted automatically by the temperature change, fan spins at the highest speed when the temperature reaches 40 °C.
HIGH : Fan spins at the highest speed when the temperature reaches 30 °C.
(When the enclosure is just powered on, the fan will run for a few seconds as self-test and then stop.)

● Buzzer switch

ON
OFF
BUZZER

OFF-Turn off the buzzer sound
ON - Turn on the buzzer sound

● Temperature alarm setting

65℃
60℃
55℃
TEMP

55, 60, and 65°C, three temperature level alarm setting.

Note

1. Do not force to close the door if inserting the HDD in wrong direction, or the HDD enclosure will be damaged.
2. The fan that comes with the enclosure works with the intelligent temperature control system. Changing the fan of other models will affect the product function.
3. Hard drives should be handled carefully, especially when you transport them. If you' re not careful with your hard drives, you may experience lost or corrupted data.
4.Be aware of the heat since the hard drive may reach temperature up to 50°C.