

araid[®] M300/MS300

A Non-Stop RAID 1 controller

Pioneer Support Enterprise *SNMP Agent Management*

- Host Interface: SATA II (3.0Gbps), compatible with SATA III
- Plug and Play, No Driver Needed
- Support Disk Hot-Swap and Auto-Rebuild
- 4cm Silent and Cooling Fan
- RAID 1 or RAID 0 mode
- ARAID SMART monitoring system
- MS300 model enable HDD's security feature



RAID 1 VS RAID 0

RAID 1

Safe Mode

Total Capacity 1.5TB

Capacity:

Master drive 1.5TB +

Secondary drive 1.5TB = 1.5TB

Recommendation:

Use as System Drive or

Data Drive

RAID 1 combines two hard drives into one hard drive; the secondary drive is used as a mirror drive of the master drive. All the data written onto the master drive will also be copied onto the secondary drive; therefore if the master drive fails, there is a complete backup on the secondary drive which is able to replace and work as the master drive immediately. That's why RAID 1 has the best data safety

RAID 0

Speed Mode

Total Capacity 3TB

Capacity:

1.5TB + 1.5TB = 3TB

Recommendation:

Use as Data Drive

RAID 0 combines two hard drives into a hard drive with doubled capacity. When data is written onto it, the data will be scattered onto the two drives; and when data is being read, data will be acquired from the two drives simultaneously. The advantage of RAID 0 is faster data access, but its disadvantage is that it has no safety; once one of the hard drives fails, all data on both hard drives will be completely lost.



A failed hard disk can never let you down again.

Pri HDD : OK
Sec HDD : OK

Two good drive

Pri HDD : OK
Sec HDD : Fail

One drive failed

Pri HDD : OK
Sec HDD : OFF

Remove failed drive

Rebuding . . .
Pri → Sec 02%

Insert new drive
& start disk rebuild

Rebuilding . . .
Pri → Sec 02%

Rebuilding . . .
Pri → Sec 20%

Rebuild in progress (20%)

Pri HDD : OK
Sec HDD : OK

Rebuild complete

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SATA



ARaid M300 Specification

Host Interface	SATA II (3.0Gbps), compatible with SATA III (6.0Gbps) and SATA I (1.5Gbps)
Hard Drive Interface	2.5 inch SATA III (6Gbps) x 2
RAID Level	RAID 1 or RAID 0 (User can set manually)
Front Panel LCD	Displays status of system, hard drive, cooling fan and temperature information
LED Indicator	Shows hard disks READ or WRITE status
Hard Drive Fail Alert	LCD, LED, Buzzer, Email and SNMP Trap Notifications
Single/Dual Switch	Mirror-on-Demand function, rebuild disk manually, which can protect standby hard disk accidental data deletion and anti-virus function
Cooling Fan	4cm Silent and Cooling Fan
No Driver	Yes
HDD Hot-Swap	Yes
OS Support	Windows, Linux, Mac, Solaris, SCO Unix, NetWare, DOS etc.
Dimension	Internal Model: standard 5.25" drive bay x2. 146mm(W) x 165mm(D) x 43mm(H) External Model: 183mm(W) x 180mm(D) x 100mm(H)
Weight (without HDD)	Internal Model: approx. 0.65kg External Model: approx. 1.8kg
Power Supply	Power consumption of Internal model (without HDD) is approx. 5.14W ~ 7.32W (depend on model). Power consumption of External model is approx. 63W.
Package Include	ARaid M300 x 1
	RS232 to USB Cable x 1
	RS232 External Cable x 1, RS232 Internal Cable x 1
	Accessory bag (chassis screws x 8, HDD tray screws x 8, keys x 4)
	CD disk (ARaid Eye, ARaid SNMP, ARaid SMART software)
	User manual



Accordance Systems Inc.

2F, No. 31, Sec.6, Hsin Yi Road, Taipei, Taiwan
Tel: +886-2-2726-3239 Fax: +886-2-2728-1322
Web: www.accordance.com.tw
E-mail: salesworld@accordance.com.tw

ACCORDANCE

3636 Westown Parkway Suite 203
Des Moines, IA 50266, USA
Tel: +1-515-223-4845
info@accordancesystems.com