

araid[®] M500

A Non-Stop RAID 1 controller

Pioneer

Support Enterprise SNMP Agent Management

- Host Interface: SATA III (6.0Gbps), compatible with SATA II
- 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 utility
- Optional Scheduled Backup Function (No RAID 1 functions)



RAID 1 VS RAID 0

RAID 1

Safe Mode Total Capacity **2TB**

Capacity:

Master drive 2TB +
Secondary drive 2TB
= 2TB

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 **4TB**

Capacity:

2TB + 2TB = 4TB

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 drives

Pri HDD : OK
Sec HDD : Fail

One drive failed

Pri HDD : OK
Sec HDD : OFF

Remove failed drive

Rebuilding...
Pri → Sec 02%

Insert new drive
& start disk rebuild

Rebuilding...
Pri → Sec 02%

Rebuilding...
Pri → Sec 20%

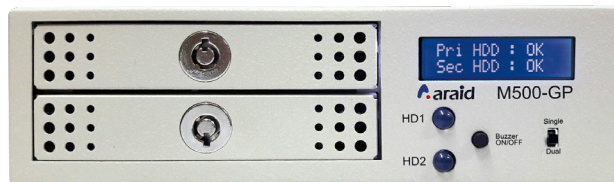
Rebuild in progress
(20%)

Pri HDD : OK
Sec HDD : OK

Rebuild complete

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SATAIII(6.0 Gbps)



ARAIID M500 Specification

Host Interface	SATA III (6.0Gbps), compatible with SATA I (1.5Gbps) and SATA II (3.0Gbps)
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 and hard drive (cooling fan, temperature, HDD rebuilding and HDD fail)
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 functions
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 : 146mm (W) x 43mm (H) x 165mm (D). Standard 5.25" drive bay x 1. External Model : 183mm(W) x 100mm (H) x 180mm(D)
Weight (without HDD)	Internal Model : approx. 0.65kg External Model : approx. 1.8kg
Power Consumption	Internal model (without HDD) : 2.84W External model(without HDD) : approx. 5.14W ~ 7.32W (depend on models).
Power Supply	Internal Model : Dual Power (Traditional Large 4-pin Power Socket x 1 & SATA Power Socket x 1) External Model : AC 100V ~ 240V
Package Include	ARAID M500 x 1
	HDD Tray x 2
	RS232 to USB Cable x 1
	RS232 External Cable x 1, RS232 Internal Cable x 1
	Accessory bag (Chassis screws x 4, HDD tray screws x 4, Keys x 4)
	CD disk (ARAID Eye, ARAID SNMP, ARAID SMART utilities)
	User manual



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