araid® *M500*

Non-Stop RAID 1 Controller

Supports enterprise-level management through SNMP.

- Host interface: SATA III (6.0 Gbps).
- Plug and play, no drivers needed.
- Supports disk hot-swapping and auto-rebuilding.
- 4 cm silent cooling fan.
- RAID levels: RAID 1, RAID 0.
- ARAID EYE PLUS all-in-one monitoring software.
- Scheduled backup function (optional).

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 data written onto the master drive will be copied onto the secondary drive. If the master drive fails, there is a complete backup of the data on the secondary drive, and it can replace and work as the master drive immediately. RAID 1 offers the greatest data security.

RAID 0 — Speed Mode — Total Capacity *4 TB*

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, it is scattered onto the two drives; when data is read, it is acquired from the two drives simultaneously. RAID 0 has the advantage of faster data access, but it offers no data security. If one of the drives fails, all data on both drives will be completely lost.

YEAR 2023 BEST

Never let a failed drive stop your systems again.

Pri HDD : OK Sec HDD : OK	Pri HDD : OK Sec HDD : Fail	Pri HDD : OK Sec HDD : OFF	Rebuilding... Pri ➡ Sec 02%	Rebuilding... Pri ➡ Sec 02% Rebuilding... Pri ➡ Sec 20%	Pri HDD : OK Sec HDD : OK
Two good drives	One drive failed	Remove failed drive	Insert new drive & start disk rebuilding	Rebuilding in progress (20%)	Rebuilding complete

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SATA III (6.0 Gbps)
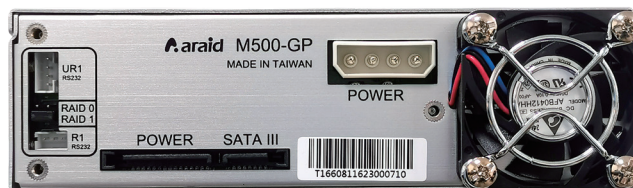
ARAID M500 Specifications

Host Interface	SATA III (6.0 Gbps), compatible with SATA I (1.5 Gbps) and SATA II (3.0 Gbps)
Disk Drive Interface	SATA III (6.0 Gbps) x 2
RAID Levels	RAID 1, RAID 0 (can be set by the user)
LCD	Displays ARAID and disk drive status: Cooling fan alert, temperature alert, rebuilding progress, and drive failure
LED Indicators	Disk drive read and write status
Disk Drive Failure Alerts	LCD, LED, buzzer, email, and SNMP trap notifications
Single/Dual Switch	Mirror-on-Demand function (allows manual disk rebuilding). Protects data in the secondary disk from accidental deletion and viruses.
Cooling Fan	4 cm silent cooling fan
Drivers	None required
Disk Hot-Swapping	Supported
Supported OS	Windows (11/10/7/XP), Linux, Mac, Solaris, SCO Unix, NetWare, DOS, etc.
Dimensions	Internal Model: 146 mm (W) x 43 mm (H) x 165 mm (D). Standard 5.25" drive bay x 1 External Model: 183 mm (W) x 100 mm (H) x 180 mm (D)
Weight (without disk drive)	Internal Model: approx. 0.65 kg External Model: approx. 1.8 kg
Power Consumption (without disk drive)	Internal Model: 2.84W External Model: approx. 5.14W ~ 7.32W (depending on model)
Power Supply	Internal Model: Dual power (LP4 4-pin power connector x 1, SATA power connector x 1) External Model: AC 100V ~ 240V
Package Contents	ARAID M500 x 1
	HDD Tray x 2
	RS232 to USB Cable x 1
	RS232 Output Cable x 1, RS232 Input Cable x 1
	Accessory bag (Chassis screws x 4, HDD tray screws x 4, Keys x 4)
	CD (includes ARAID EYE PLUS, ARAID SNMP Agent, ARAID S.M.A.R.T software and utilities)
	User manual