

Alnico RAID Series



Model	AL-6160		AL-6120		AL-6080	
	6160S	6160FA	6120S	6120FA	6080S	6080FA
RAID Architecture	Intel 80321 I/O processor. Proprietary ACIS to support extreme performance RAID 6 function. Up to 1GB DDR SDARM on one DIMM socket with ECC protection. Advance 64-bit PCI-X bus architecture.					
RAID Features	RAID Levels : 0, 1, 3, 5, 0+1, 6 & JBOD. Multiple RAID selection. Online RAID level/stripe size migration. Online Array roaming. Online capacity expansion and RAID level migration simultaneously. Instant availability and background initialization. Hot Spare Disk / Pass through Disk support. Automatic drive insertion / removal detection and rebuilding.					
System Type	3U Rackmount		2U rackmount		2U rackmount	
Host Interface	Dual Ultra 320 SCSI Channels	Dual 4 Gbit Fibre Channels	Dual Ultra 320 SCSI Channels	Dual 4 Gbit Fibre Channels	Dual Ultra 320 SCSI Channels	Dual 4 Gbit Fibre Channels
Disk Interface	16 of SATA-II channels		12 of SATA-II channels		8 of SATA-II channels	
Battery Back-up Module	Optional, Supporting 72 hours battery back-up time.					
RAID Management	Firmware-embedded Web browser-based RAID manager via build in 10/100 Ethernet port. Firmware-embedded manager via RS-232 port. Firmware-embedded manager through Front LCD control panel. Field-upgradeable firmware in flash ROM.					
Monitoring/Indicators	All system status can be monitored via Firmware-embedded Web browser-based RAID manage. System status indication through LCD, LED and alarm buzzer. All system events can be sent to multiple user alerts to be via "Plain English" e-mails. Firmware-embedded SNMP agent allows remote to monitor events through LAN with no SNMP agent required.					
Operating System	OS independent and transparent.					
Power Supply	Redundant by Dual 460W Power modules with PFC feature, Loading Sharing type and cable-less design.		Redundant by Dual 350W Power modules with PFC feature, Loading Sharing type and cable-less design.			
Electrical	AC Voltage 110-230 VAC/AC Frequency 50-60Hz.					
Temperature	Operating Temperature: 5 to 35 degree C. Non Operating Temperature: -40 to 60 degree C.					
Relative Humidity	20% to 80% non-condensing.					
Dimension	446mm(W) x 470mm(D) x 3U		446mm(W) x 480mm(D) x 2U			
Weight	18KGS		13.5KGS		13KGS	

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PetaStors' Alnico RAID series are specializing in designing for various needs of fast-growing environments. Target usage ranges are set from small business to department and corporate server needs. Alnico RAID series are an excellent performance, high reliability, continuous availability, greater capacity and cost effective external RAID subsystem. It will be a perfect solution for 'Stream Media' or those using high data transfer rate. When properly configured, it can provide non-stop service with a high degree of fault tolerance through the use of RAID technology and advanced array management features. Our RAID system provides not only RAID levels 0,1,3,5,0+1 & JBOD but also RAID 6. It can be managed either through the LCD control panel, RS232 port or Ethernet port (Web Browser-Based Management). It also contains STMP manager monitors all system events and user can select either single or multiple user notifications to be sent via 'Plain English' e-mails.

3U 16Bays
2U 12Bays
2U 8Bays

S-ATA
SCSI/FC RAID System

Alnico
RAID

Series



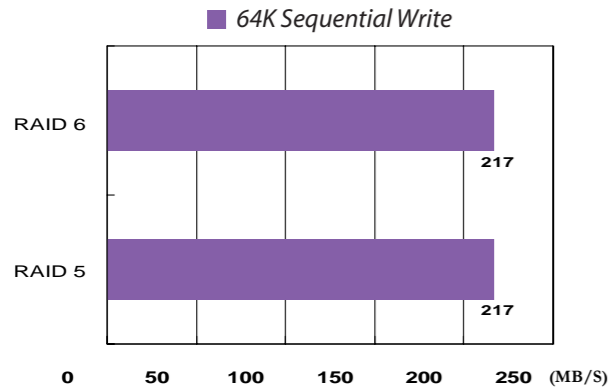
Securing Your Data through Us!



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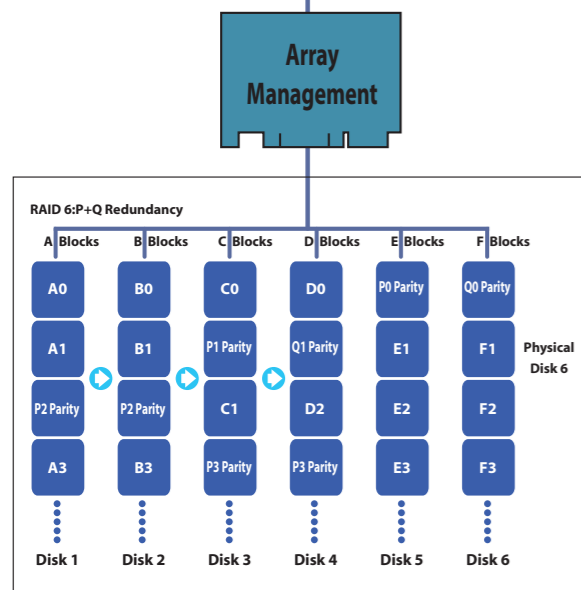
Superior Performance

- Our RAID controller uses high performance Intel 80321 I/O processor along with intelligent cache system, which supports up to 1GB DDR SDARM with ECC protection.
- Advance 64-bit PCI-X bus architecture.



Environment	20 workers WDC WD1200JD HDD*12
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Proprietary ASIC to support extreme performance RAID 6 function.



What is RAID 6?

A RAID 6 array is essentially an extension of a RAID 5 array with a second independent distributed parity scheme. Data and parity are striped on a block level across multiple array members, just like in RAID 5, and a second set of parity is calculated and written across all the drives.

Continuous Availability

- With advanced algorithms to provide RAID levels 0,1,3,5, 0+1,6 & JBOD as your option.
- 'Online Array roaming' allows the administrators the ability to move a completely raid set to another system without losing RAID configuration and data on that raid set. If a server fails to work, the raid set disk drives can be moved to another server and inserted in any order.



Redundancy and hot swappable power supplies and cooling fan systems can tolerate a main failure without interrupting service.

- Online RAID level/stripe size migration.
- Online capacity expansion and RAID level migration simultaneously.
- Instant availability and background initialization.
- Hot swap new drives without taking the system down.
- Automatic drive failure detecting and hot spare drive rebuilding.
- Operating System independent and transparent.

Why need RAID 6?

- Need tolerate two simultaneous drive failures without downtime or data loss.
- Higher fault tolerance than RAID 1, 3 or 5.
- Ideal for applications requiring large logical drives
- Lower implementation cost than Mirroring.

Capacity



New generation of SATA is utilized in our design as the disk interface. And you can easily build a TB RIAD with less compatible problems with SATA disk drive.

- Variety of models, support 8, 12, and 16 drivers.
- Online capacity expansion and RAID level migration simultaneously.

Easy RAID Management

Configuration & Health Monitoring:



Manual configuration and monitoring can be done through the LCD control panel, RS-232 or Ethernet



High Reliability

- Cable-less design, utilizes solid PCB and connector instead of cables.



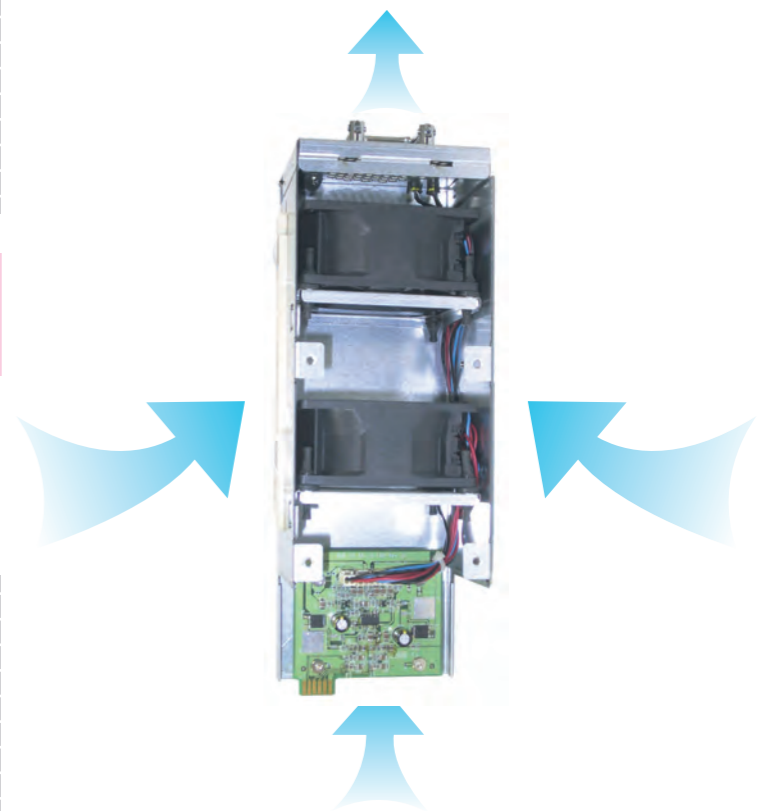
High quality Dual 460 watts power modules supports PFC (power fact correction), and the temperature controlled via FAN speed.

- Full modular design: disk drive, cooling fan, LCD and switch, power supply, and RAID controller are modular allow easy swap out of faulty parts to short the down time of service of RAID.



- Optional Battery Back-up module to avoid the data loss due to sudden power off.

Excellent and wide range airflow design; redundant fans in the single module.



Cost Effective

- We provide a cost effective and nice performance RAID solution. It combines high performance 2 Gbps FC-AL/Ultra-320 SCSI host connector with the cost-effective SATA drivers; simplifying the storage setup process to make a smart choice for many kinds of purpose.

- Web Browser-based RAID manager allows local and remote to access it from standard Internet browser via 10/100 Ethernet port with no software or patches required. It does bring you the most convenient way to configure and monitor your RAID subsystem.



Event Notification:

- The firmware contains SMTP manager monitors all system events and user can select either single or multiple user notification to be sent via 'Plain English' e-mails.
- The warning message will show in the LCD, alarm buzzer and respect LED.
- Firmware-embedded SNMP agent allows remote to monitor events through LAN with no SNMP agent required.

Automatically sends the event report by E-mails.

