Alnico Gen 2

High Availabilty 6Gb SAS RAID and JBOD Series

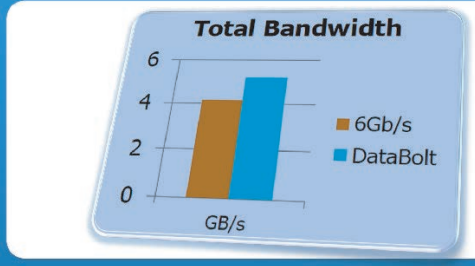
Securing you data

through us

etaStor

12Gb/s Serial Attached SCSI | 6Gb/s Serial Attached SCSI | 16Gb FC | 8Gb FC | SERIAL ATA 6Gb/s | 10GbE iSCSI

DataBolt Technology



PetaByte-Scale

1,000,000,000,000 Kilobyte
1,000,000,000,000 Megabyte
1,000,000,000,000 Gigabyte
1,000,000,000,000 Terabyte
1,000,000,000,000 Petabyte

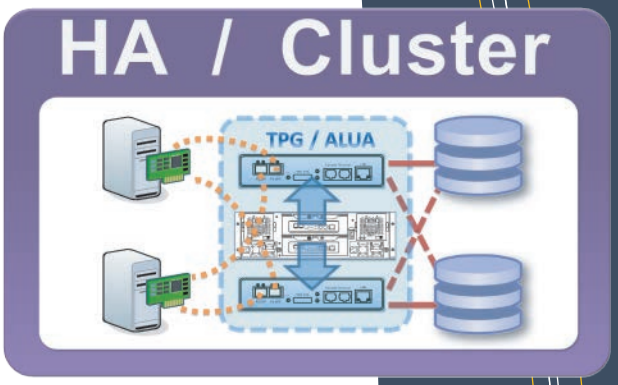
Alnico AN-8 RAID Series



Model	AN-824				AN-816				AN-812			
	824STS 824STD	824FQS 824FQD	824FHS 824FHD	824iAS 824iAD	816STS 816STD	816FQS 816FQD	816FHS 816FHD	816iAS 816iAD	812STS 812STD	812FQS 812FQD	812FHS 812FHD	812iAS 812iAD
Controller Number	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2
RAID Architecture	1.2Ghz RAID-On-Chip Dual-Core Storage Processor. Up to 8GB DDR3-1866 ECC RDIMM (Registered DIMM) on one socket. Write-Through or Write-back cache mode support. NVRAM for RAID configuration and transaction log.				Advanced PCI-Express 3.0 bus architecture. Default cache memory size: 2GB Support Flash-based (FBM) or Battery backup modules (BBM) (Optional). Real time clock support.							
RAID Features	Multiple RAID 0 and RAID 10(1E) support (RAID 00 and RAID100) Configurable stripe size up to 1024KB. Support for native 4K and 512 byte sector SAS and SATA devices. Multiple pairs SSD/HDD disk clone function. SSD automatic monitor clone (AMC) support. Online array roaming. / Offline RAID set. / Multiple RAID selection. Automatic drive insertion / removal detection and rebuilding. Online capacity expansion and RAID level migration simultaneously. Great than 2TB per volume set (64-bit LBA support).				RAID Levels: 0, 1,1E, 3, 5, 6, 50, 60 & JBOD. Support Global Hot Spare and local Hot Spare disk. Disk Scrubbing / array verify scheduling for automatic repair of all configured RAID sets. DataBolt™ Bandwidth Optimizer for balance faster host and slower drive devices. Support spin down drivers for idle disk to extend service life (MAID). Online RAID level / stripe size migration. Supports up to 256 SAS devices. Max 128 LUNs (volume sets) per RAID set. Login record in the event log with IP address and service (http, telnet, and serial).						
System Type	4U Rackmount				3U Rackmount				2U Rackmount			
Host Interface per Controller	DualMiniSAS HD(4x 12Gb) SFF-8644	Quad 16Gb Fibre	Dual 16Gb Fibre	Dual 10Gb Ethernet SFP+	DualMiniSAS HD(4x 12Gb) SFF-8644	Quad 16Gb Fibre	Dual 16Gb Fibre	Dual 10Gb Ethernet SFP+	DualMiniSAS HD(4x 12Gb) SFF-8644	Quad 16Gb Fibre	Dual 16Gb Fibre	Dual 10Gb Ethernet SFP+
Disk Interface	24 x 12Gb SAS / 6Gb SATA drives				16 x 12Gb SAS / 6Gb SATA drives				12 x 12Gb SAS / 6Gb SATA drives			
	Single downstream miniSAS HD (4x12Gb) expansion port per controller											
	Lockable Disk carrier can support both 2.5" and 3.5" drives without additional accessories											
RAID Management	Firmware-embedded Web browser-based RAID manager via built-in 10/100 Ethernet. Firmware-embedded manager through front LCD control panel. Firmware-embedded manager via RS-232 port. Field-upgradeable firmware in flash ROM.											
Monitoring / Indicators	All system status can be monitored by firmware-embedded Web browser-based RAID manager. Firmware-embedded SNMP agent allows the remote to monitor events with no SNMP agent required. System status indication through LCD, LED and alarm buzzer. All system events can be sent to multiple user alerts via e-mails. (SMTP)											
Operating System	***Single controller:** OS independent and transparent ***Redundant controller:** MPIO (Multipath I/O) driver required											
Cooling System	Dual redundant FAN modules, each FAN module contains 2 FANs.								Redundant by dual FAN module, each FAN module with 2 x Blowers included			
Power Supply	Redundant by three 500W/80 Plus energy-efficient power modules with PFC, load sharing and cable-less design.				Redundant by dual 500W /80 Plus energy-efficient power modules with PFC, load sharing and cable-less design.				Redundant by dual 500W /80 Plus energy-efficient power modules with PFC. load sharing and cable-less design.			
Electrical	AC Voltage 100-240 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	446.5mm(W) x 517mm(D) x 4U				446.5mm(W) x 517mm(D) x 3U				446.5mm(W) x 517mm(D) x 2U			
Weight	Single controller : 34KGS; Dual controller: 36.5KGS				Single controller : 20KGS ; Dual controller : 22.5KGS				Single controller : 17KGS ; Dual controller : 20KGS			

12Gb/s Serial Attached SCSI

SERIAL ATA 6Gb/s



Alnico JBOD Series

						
Model	**AN-824J**		**AN-816J**		**AN-812J**	
	AN-824JTS	AN-824JTD	AN-816JTS	AN-816JTD	AN-812JTS	AN-812JTD
Controller Number	1	2	1	2	1	2
Features	Redundant mode supported with dual I/O expander module using either RAID controllers or HBAs to achieve failover protection. DataBolt™ Bandwidth Optimizer for balance faster host and slower SAS or SATA devices.					
System Type	4U Rackmount		3U Rackmount		2U Rackmount	
Host Interface	One upstream miniSAS HD (4x12Gb) connector per I/O expansion module.					
Disk Interface	24 / 16 / 12 x 12Gb SAS / 6Gb SATA drives (Optional SAS-SATA Bridge supported) Dual downstream miniSAS HD (4x12Gb) expansion connector per I/O expansion module, supports up to 256 devices expansion					
RAID Management	JBOD Subsystems are managed by RAID subsystem. Provide CLI by console port.					
Monitoring / Indicators	Through in-band SES (SCSI Enclosure Service), out-of-band RS-232 port					
Operating System	OS independent and transparent					
Cooling System	Dual redundant FAN modules, each FAN module contains 2 FANs.				Redundant by dual FAN module, each FAN module with 2 x Blowers included	
Power Supply	Redundant by three 500W/80 Plus energy-efficient power modules with PFC, load sharing and cable-less design.		Redundant by dual 500W / 80 Plus energy-efficient power modules with PFC, load sharing and cable-less design.		Redundant by dual 500W / 80 Plus energy-efficient power modules with PFC. load sharing and cable-less design.	
Electrical	AC Voltage 100-240 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	446.5mm(W) x 517mm(D) x 4U		446.5mm(W) x 517mm(D) x 3U		446.5mm(W) x 517mm(D) x 2U	
Weight	AN-824JTS: 34KGs, AN-824JTD: 36KGs,		AN-816JTS: 20KGs, AN-816JTD: 22KGs,		AN-812JTS: 17KGs, AN-812JTD: 19KGs,	

12Gb/s Serial Attached SCSI | 16Gb FC | SERIAL ATA 6Gb/s | 10GbE iSCSI

Alnico AH RAID Series

Model	AH-825				
	AH-825STS AH-825STD	AH-825FQS AH-825FQD	AH-825FHS AH-825FHD	AH-825iAS AH-825iAD	AH-825JTS AH-825JTD
Controller Number	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2
RAID Architecture	800Mhz RAID-On-Chip Dual-Core Storage Processor. Up to 8GB DDR31333 ECC RDIMM (Registered DIMM) on one socket. Battery backup modules (Optional).		1.2Ghz RAID-On-Chip Dual-Core Storage Processor. Up to 8GB DDR31866 ECC RDIMM (Registered DIMM) on one socket. Support flash-based (FBM) or battery backup module (BBM) (Optional).		JBOD systems are managed by RAID system
	NVRAM for RAID configuration and transaction log. Default cache memory size: 2GB		Advanced PCI-Express 3.0 bus architecture. Real time clock support.		
RAID Features	New features available for AH-8 Series only: *Multiple RAID 0 and RAID 10(1E) support (RAID 00 and RAID100). *DataBolt™ Bandwidth Optimizer for balance faster host and slower disks. *Multiple pairs SSD/HDD disk clone function. *SSD automatic monitor clone (AMC) support. Support for native 4K and 512 byte sector SAS and SATA devices. Online array roaming. / Offline RAID set. / Multiple RAID selection. Login record in the event log with IP address & service (http/ telnet/ serial). Online capacity expansion and RAID level migration simultaneously.		RAID Levels: 0, 1,1E, 3, 5, 6, 50, 60 & JBOD. Configurable stripe size up to 1024KB. Automatic drive insertion / removal detection and rebuilding. Support Global Hot Spare and local Hot Spare disk. Disk Scrub/array verify scheduling for automatic repair for RAID sets. Support spin down drivers for idle disk to extend service life (MAID). Online RAID level / stripe size migration. Supports up to 256 SAS devices. Max 128 LUNs (volume sets) per RAID set. Great than 2TB per volume set (64-bit LBA support).		DataBolt™ Bandwidth Optimizer for balance faster host and slower SAS or SATA devices.
System Type	2U Rackmount				
Host Interface per controller	DualMiniSAS HD(4x 12Gb) SFF-8644	Quad 16Gb Fibre	Dual 16Gb Fibre	Dual 10Gb Ethernet SFP+	Single miniSAS HD (4x12Gb) ports per Expender
Disk Interface	24 x 12Gb SAS / 6Gb SATA drives				
	Raid: Single downstream miniSAS HD (4x12Gb) SFF-8644 exp. port per Raid controller JBOD: Dual downstream miniSAS HD (4x12Gb) SFF-8644 exp. ports per SAS expander				
	Lockable Disk carrier supports 2.5'' drives				
RAID Management	Firmware-embedded Web browser-based RAID manager via built-in 10/100 Ethernet. Firmware-embedded manager through front LCD control panel. Firmware-embedded manager via RS-232 port. Field-upgradeable firmware in flash ROM.				
Monitoring / Indicators	All system status can be monitored by firmware-embedded Web browser-based RAID manager. Firmware-embedded SNMP agent allows the remote to monitor events with no SNMP agent required. System status indication through LCD, LED and alarm buzzer. All system events can be sent to multiple user alerts via e-mails. (SMTP)				
Operating System	***Single controller:** OS independent and transparent ***Redundant controller:** MPIO (Multipath I/O) driver required				
Cooling System	Redundant by dual FAN module, each FAN module with 2 x Blowers included				
Power Supply	.Redundant by dual 500W / 80 Plus energy-efficient power modules with PFC, load sharing and cable-less design.				
Electrical	AC Voltage 100-240 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	449mm(W) x 468mm(D) x 2U				
Weight	Single controller : 18KGS ; Dual controller : 20KGS				

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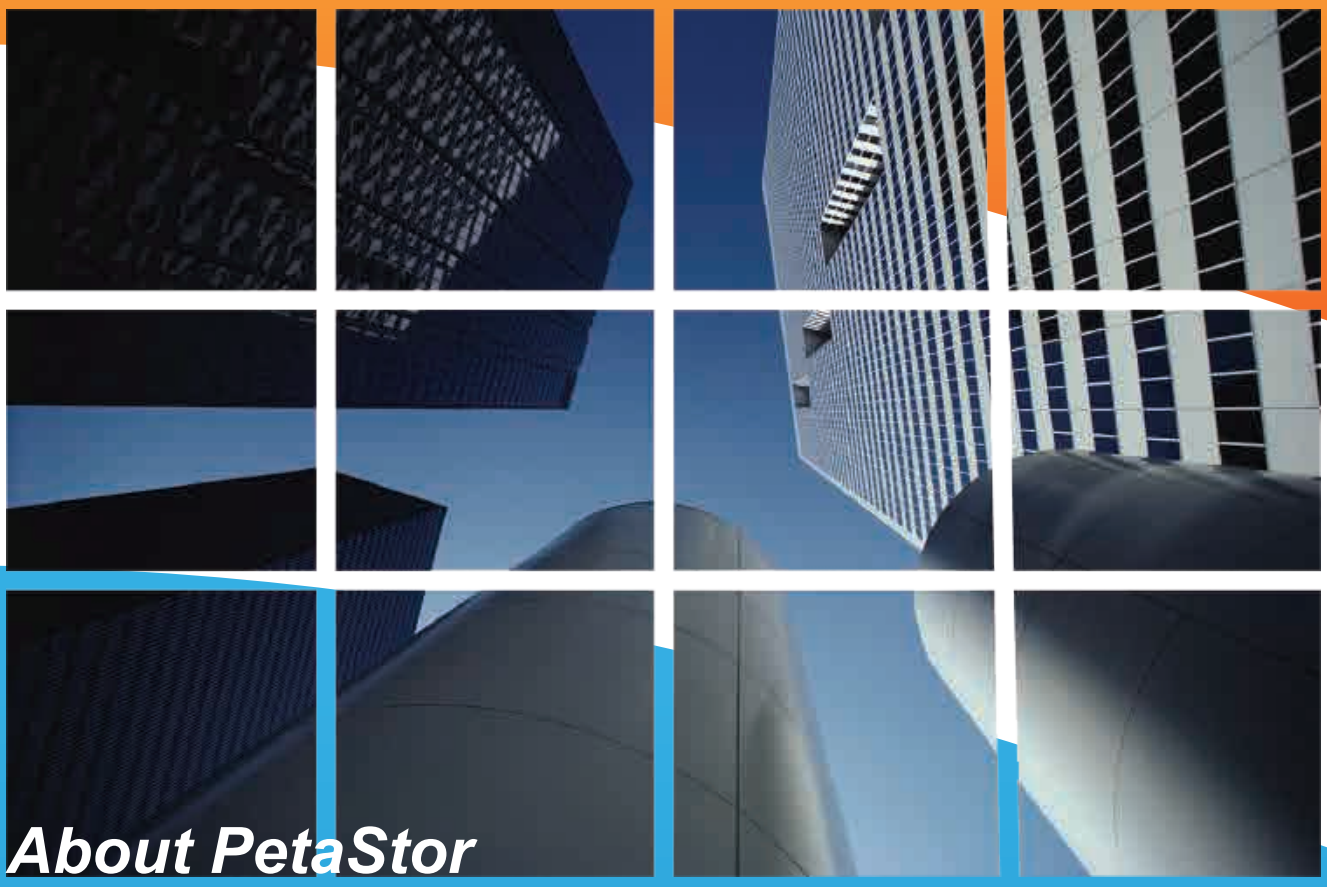

About PetaStor

PetaStor, Inc. is a leader and pioneer in manufacturing high reliable, quality, and cost-effective disk array subsystems for SMBs and enterprises that regard the RAID subsystems having high performance, high reliability, and quality as the most important matter in various applications.

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