12Gb/s **S**erial **A**ttached **S**CSI
6Gb/s **S**erial **A**ttached **S**CSI
16Gb FCI
8Gb FCI
SERIAL ATA 6Gb/s
10GbE iSCSI
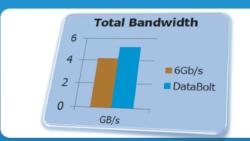
DataBolt Technology

Total Bandwidth

- 6Gb/s
- DataBolt

GB/s

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	824FUS 824FUD	824FHS 824FHD	824iAS 824iAD	816STS 816STD	816FUS 816FUD	816FHS 816FHD	816iAS 816iAD	812STS 812STD	812FUS 812FUD	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 32Gb Fibre	Dual 16Gb Fibre	Dual 10Gb Ethernet SFP+	DualMiniSAS HD(4x 12Gb) SFF-8644	Quad 32Gb Fibre	Dual 16Gb Fibre	Dual 10Gb Ethernet SFP+	DualMiniSAS HD(4x 12Gb) SFF-8644	Quad 32Gb 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 Dual 700W/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			