Storage Solution

???????RAID?IOC?????, ??????. ???????????, ??Intel??????. ????, ??Marvell??????, ?????Google?????????
???, ?????, ????100%???. ????????, ????????????, ?????????....Orz

![intel]

Model	IOP348 I/O Processor
Design	RAID HBA
Architecture	RoC (RAID on Chip), IOP81348, Hardware RAID
RAID Implementation Method	IOP-base RAID
RAID 5 Support	Yes, Pure Hardware
RAID 6 Support	Yes, Pure Hardware
IOP Support	Yes, XScale at 667/800/1200MHz, Dual-core, ADMA Controller
HDD Interface Support	SAS 1.1, Compliant with SATA
HDD Speed Support	3Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	8
Wide-port Support	Yes, 4 narrow links/per wide port
Host Bus Support	PCIe v1.0a lane x8, PCI-X v2.0a
MSI-X Support	n/a
External Memory Controller Support	Yes, DDR2-400/533MHz, ECC, 256/512MB fixed memory/Up to 4GB
Read-ahead/Write-back Cache	Yes

BBU(Battery Backup Unit) Support	Yes
Product/Supplier	Adaptec, Areca, Promise, HighPoint

Adaptec RAID 2045/2405/2805/5405/5445/5085/5805/51245/51645/52445/5405Z/5445Z/5805Z
Adaptec MaxIQ 2405Q/5805Q/5805ZQ
Areca ARC-1212/1222/1680-i/1680LP/1680x/1680ix-8/1680ix-12/1680ix-16/1680ix-24/1680P
HighPoint RocketRAID 4310/4311/4320/4321/4322, RocketRAID 4460(PCIe v2.0 lane x8)

Optional Avalibility	

Adaptec by PMC: maxCache, Zero-Maintenance Cache Protection, Advanced Data Protection Suite
HighPoint: Terabyte Technologies [TerabyteStream, TerabyteGuard, TerabyteSaver]
Promise: Perfect RAID Technology

Model	IOP333 I/O Processor
Design	IOP on RAID HBA
Architecture	I/O Processor, IOP80333, Hardware RAID
RAID Implementation Method	IOP-base RAID
RAID 5 Support	Yes, Pure Hardware
RAID 6 Support	Yes, Pure Hardware
IOP Support	Yes, XScale at 500/667/800MHz, Application Accelerator Unit
HDD Interface Support	n/a
HDD Speed Support	n/a
NCQ (Native Command Queuing)	n/a
64-bit LBA Support	n/a
Port Number	n/a
Wide-port Support	n/a
Host Bus Support	PCIe v1.0a lane x8, PCI-X v2.0a
MSI-X Support	n/a
External Memory Controller Support	Yes, DDR2-400/533MHz, ECC, 256/512MB fixed memory/Up to 4GB

Read-ahead/Write-back Cache	Yes
BBU(Battery Backup Unit) Support	Yes
Product/Supplier	Adaptec, Areca, LSI, Promise

Adaptec RAID 4805SAS/3405/3805/31205/31605
LSI MegaRAID SAS 8308ELP/8344ELP/MegaRAID SAS 84016E
Promise SuperTrak EX4350

Optional Avalibility	

Adaptec by PMC: Advanced Data Protection Suite
Promise: Perfect RAID Technology

Model	ICH10R
Design	ROMB
Architecture	RAID option ROM, Intel® Rapid Storage Technology, Hardware-Assisted Software RAID
RAID Implementation Method	Driver-base RAID
RAID 5 Support	Yes, Host CPU
RAID 6 Support	n/a
IOP Support	n/a
HDD Interface Support	SATA v2.5
HDD Speed Support	3Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	6
Wide-port Support	n/a
Host Bus Support	DMI (Direct Media Interface)
MSI-X Support	n/a
External Memory Controller Support	Yes, use system memory

Read-ahead/Write-back Cache	Yes
BBU(Battery Backup Unit) Support	n/a
Product/Supplier	Mainboard suppliers

Intel X58 mainboards	
Optional Avalibility	

Intel X58 mainboards: AHCI (Advanced Host Controller Interface)

MARVELL®

Model	88RC9580
Design	RAID HBA
Architecture	RoC (RAID on Chip), Hardware RAID
RAID Implementation Method	IOP-base RAID
RAID 5 Support	Yes, Pure Hardware
RAID 6 Support	Yes, Pure Hardware
IOP Support	Yes, ARM-based I/O Processor at 800MHz
HDD Interface Support	SAS v2.0, Compliant with SATA
HDD Speed Support	3Gb/s, 6Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	8
Wide-port Support	Yes, 4 narrow links/per wide port
Host Bus Support	PCIe v2.0 lane x8
MSI-X Support	Yes
External Memory Controller Support	Yes, DDR2-800, ECC, 512MB fixed memory/Up to 4GB
Read-ahead/Write-back Cache	Yes

BBU(Battery Backup Unit) Support	Yes
Product/Supplier	ATTO
ATTO ExpressSAS R60F/R680/R608/R644	
Optional Avalibility	
ATTO: ADS (Advanced Data Streaming)/Drive Assure/Cache Assure Technology, DVRAID (Digital Video RAID)	

Model	88SE9485
Design	SAS HBA
Architecture	I/O Controller, Non-RAID
RAID Implementation Method	*Driver-base RAID
RAID 5 Support	n/a
RAID 6 Support	n/a
IOP Support	n/a
HDD Interface Support	SAS v2.0, Compliant with SATA
HDD Speed Support	3Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	8
Wide-port Support	n/a
Host Bus Support	PCIe v2.0 lane x8
MSI-X Support	n/a
External Memory Controller Support	n/a
Read-ahead/Write-back Cache	b/a
BBU(Battery Backup Unit) Support	n/a

Product/Supplier	HighPoint
HighPoint RocketRAID 2710/2720/2721/2722, 2760(PCIe Gen2 lane x16; special Switch Architecture) *?HighPoint????????IOC, ??????RAID??, ??Hardware-Assisted Software RAID??. ??Flash?????RAID firmware???RAID engine???RAID??. Cache policy???System Memory????????Cache Memory.	
Optional Avalibility	
n/a	

Model	88SE9480
Design	RAID HBA, SAS/SATA HBA
Architecture	not sure
RAID Implementation Method	not sure
RAID 5 Support	Yes
RAID 6 Support	n/a
IOP Support	n/a
HDD Interface Support	SAS v2.0, Compliant with SATA
HDD Speed Support	3Gb/s, 6Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	8
Wide-port Support	n/a
Host Bus Support	PCIe v2.0 lane x8
MSI-X Support	Yes
External Memory Controller Support	Yes, use system memory
Read-ahead/Write-back Cache	Yes
BBU(Battery Backup Unit) Support	n/a
Product/Supplier	Areca

Areca ARC-1320-8i/8x, ARC-1320-4i4x, ARC-1320ixl-16	
Optional Avalibility	
n/a	

Model	88SE9128
Design	RAID HBA, ROMB
Architecture	I/O Processor, Hardware RAID
RAID Implementation Method	IOC-based RAID
RAID 5 Support	n/a
RAID 6 Support	n/a
IOP Support	Yes, ARM-based CPU
HDD Interface Support	SATA v3.0, PATA
HDD Speed Support	3Gb/s, 6Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	8
Wide-port Support	n/a
Host Bus Support	PCIe v2.0 lane x8
MSI-X Support	Yes
External Memory Controller Support	Yes, use system memory
Read-ahead/Write-back Cache	Yes
BBU(Battery Backup Unit) Support	n/a
Product/Supplier	HighPoint, Mainboard suppliers
HighPoint RocketRAID 620/622, 640/644(2 chips; PLX bridge)	
Optional Avalibility	

n/a

Model	88SE6480
Design	RAID HBA, ROMB
Architecture	I/O Controller, Hardware-Assisted Software RAID
RAID Implementation Method	Driver-base RAID
RAID 5 Support	Yes, by CPU, lower performance
RAID 6 Support	n/a
IOP Support	n/a
HDD Interface Support	SAS v1.1, Compliant with SATA
HDD Speed Support	3Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	8
Wide-port Support	Yes, 4 narrow links/per wide port
Host Bus Support	PCIe v1.0a lane x4
MSI-X Support	n/a
External Memory Controller Support	Yes, use system memory
Read-ahead/Write-back Cache	Yes
BBU(Battery Backup Unit) Support	n/a
Product/Supplier	HighPoint, Supermicro, Mainboard suppliers
HighPoint RocketRAID 2644X4/2642/2640X4/2640X1/2680/2684 Supermicro AOC-SASLP-MV8	
Optional Avalibility	
n/a	

Model	88SE6145
Design	RAID HBA, ROMB
Architecture	I/O Controller, Hardware-Assisted Software RAID
RAID Implementation Method	Driver-base RAID
RAID 5 Support	Yes, by CPU, lower performance
RAID 6 Support	n/a
IOP Support	n/a
HDD Interface Support	SATA, PATA
HDD Speed Support	3Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	8
Wide-port Support	n/a
Host Bus Support	PCIe v1.0a lane x1
MSI-X Support	n/a
External Memory Controller Support	Yes, use system memory
Read-ahead/Write-back Cache	Yes
BBU(Battery Backup Unit) Support	n/a
Product/Supplier	Mainboard suppliers
PCIe mainboards	
Optional Avalibility	
PCIe mainboards: AHCI (Advanced Host Controller Interface)	

LSI

Model	LSISAS2116

Design	RAID HBA, External RAID Box
Architecture	RoC (RAID on Chip), Fusion-MPT, Hardware RAID
RAID Implementation Method	IOP-base RAID
RAID 5 Support	Yes, Pure Hardware
RAID 6 Support	Yes, Pure Hardware
IOP Support	Yes, PPC440 at 800MHz, Hardware XOR/GF function Assist
HDD Interface Support	SAS v2.0, Compliant with SATA
HDD Speed Support	3Gb/s, 6Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	16
Wide-port Support	Yes, 4 narrow links/per wide port
Host Bus Support	PCIe v2.0 lane x8
MSI-X Support	Yes
External Memory Controller Support	Yes, DDR2-800, ECC, 512MB fixed memory/Up to 8GB
Read-ahead/Write-back Cache	Yes
BBU(Battery Backup Unit) Support	Yes
Product/Supplier	Areca, LSI
Areca ARC-8040 LSI SAS 9200-16i/16e	
Optional Avalibility	
n/a	

Model	LSISAS2108
Design	RAID HBA, ROMB
Architecture	RoC (RAID on Chip), Fusion-MPT, Hardware RAID

RAID Implementation Method	IOP-base RAID
RAID 5 Support	Yes, Pure Hardware
RAID 6 Support	Yes, Pure Hardware
IOP Support	Yes, PPC440 at 800MHz, Hardware XOR/GF function Assist
HDD Interface Support	SAS v2.0, Compliant with SATA
HDD Speed Support	3Gb/s, 6Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	8
Wide-port Support	Yes, 4 narrow links/per wide port
Host Bus Support	PCIe v2.0 lane x8
MSI-X Support	Yes
External Memory Controller Support	Yes, DDR2-800, ECC, 512MB fixed memory/Up to 4GB
Read-ahead/Write-back Cache	Yes
BBU(Battery Backup Unit) Support	Yes
Product/Supplier	Areca, LSI, Intel, DELL

Areca ARC-1880i/1880x, ARC-1880-ixl-12/16/24
LSI MegaRAID SAS 9260-4i/8i/16i, MegaRAID SAS 9261-8i, MegaRAID SAS 9280-8e/4i4e/16i4e/24i4e
3ware SAS 9750-4i/8i/16i4e/24i4e
DELL H700/H800
Intel RS2SG244/RS2WG160/RS2BL080/RS2BL040/RS2PI008/RS2MB044/RMS2MH080

Optional Avalibility	

LSI/Intel: Advanced Software Options [CacheCache, FastPath, SafeStore, MegaRecovery], SSD Guard, Dimmer Switch
LSI/3ware: StreamFusion+[ACS (Advanced Content Streaming), IRP (Inelligent Read Prefetch), RRR (RapidRAID Recovery), BTAP (Background Task Activity Policy)], StorSave with BBU
DELL: Non-Volatile CACHE [512MB, 1GB], CTIO (Cut-through IO), Physical Disk Power Management

Model	LSISAS2008

Design	RAID HBA, ROMB, SAS/SATA HBA
Architecture	I/O Processor, Fusion-MPT, Hardware RAID
RAID Implementation Method	IOC-based RAID, Driver-based RAID
RAID 5 Support	Yes, Host-CPU, by RAIDKey or LSI MegaRAID SAS 9240 series
RAID 6 Support	n/a
IOP Support	Yes, PPC440 at 533MHz
HDD Interface Support	SAS v2.0, Compliant with SATA
HDD Speed Support	3Gb/s, 6Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	8
Wide-port Support	Yes, 4 narrow links/per wide port
Host Bus Support	PCIe v2.0 lane x8
MSI-X Support	Yes
External Memory Controller Support	n/a
Read-ahead/Write-back Cache	n/a
BBU(Battery Backup Unit) Support	n/a
Product/Supplier	LSI, Intel, DELL
LSI SAS 9200-8e/16e, SAS 9211-4i/8i, MegaRAID SAS 9240-4i/8i DELL H200 Intel RS2WC080/RS2WC040/RMS2AF080/RMS2AF040/RMS2LL040/RMS2LL080	
Optional Avalibility	
LSI/Intel: SSD Guard, Dimmer Switch	

Model	LSISAS1078
Design	RAID HBA, ROMB

Architecture	RoC (RAID on Chip), Fusion-MPT, Hardware RAID
RAID Implementation Method	IOP-base RAID
RAID 5 Support	Yes, Pure Hardware
RAID 6 Support	Yes, Pure Hardware
IOP Support	Yes, PPC440 at 500MHz, Hardware XOR/GF function Assist
HDD Interface Support	SAS v1.1, Compliant with SATA
HDD Speed Support	3Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	8
Wide-port Support	Yes, 4 narrow links/per wide port
Host Bus Support	PCIe v1.0a lane x8
MSI-X Support	Yes
External Memory Controller Support	Yes, DDR2-667, ECC, 128/256/512MB fixed memory/Up to 1GB
Read-ahead/Write-back Cache	Yes
BBU(Battery Backup Unit) Support	Yes
Product/Supplier	LSI, Intel, DELL
LSI MegaRAID SAS 8880EM2/8888ELP/8708EM2/8708ELP/8704EM2/8704ELP DELL PERC 6/i, PERC 6/E, CERC 6/I Intel SRCSASJV/SRCSATAWB/SRCSASRB/SRCSASLS4I/SRCSASBB8I/SROMBSASMR	
Optional Avalibility	
LSI/Intel: SSD Guard, Dimmer Switch	

Model	LSISAS1068/E
Design	RAID HBA, ROMB, SAS/SATA HBA
Architecture	I/O Processor, Fusion-MPT, Hardware RAID

RAID Implementation Method	IOC-based RAID, Driver-base RAID
RAID 5 Support	Yes, Host-CPU, by RAIDKey
RAID 6 Support	n/a
IOP Support	Yes, ARM966 at 225MHz
HDD Interface Support	SAS, Compliant with SATA
HDD Speed Support	3Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	8
Wide-port Support	Yes, 4 narrow links/per wide port
Host Bus Support	PCIe v1.0a lane x8, PCI-X 2.0a
MSI-X Support	Yes (for PCI-X)
External Memory Controller Support	n/a
Read-ahead/Write-back Cache	n/a
BBU(Battery Backup Unit) Support	n/a
Product/Supplier	LSI, Intel
LSI SAS3081E-R/SAS3801E/SAS3442E-R/8204ELP/8204XLP/8208ELP/8208XLP Intel SASUC8I/SASMF8I DELL SAS 5/iR, SAS 6/iR, PERC S300, SAS 5/E HBA	
Optional Avalibility	
LSI/Intel: ZCR (Zero Channel RAID) Support	

Model	LSISAS1064/E
Design	RAID HBA, ROMB, SAS/SATA HBA
Architecture	I/O Processor, Fusion-MPT, Hardware RAID
RAID Implementation Method	IOC-based RAID, Driver-base RAID

RAID 5 Support	n/a
RAID 6 Support	n/a
IOP Support	Yes, ARM926/966(for 1064E) at 225MHz
HDD Interface Support	SAS, Compliant with SATA
HDD Speed Support	3Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	8
Wide-port Support	Yes, 4 narrow links/per wide port
Host Bus Support	PCIe v1.0a lane x8, PCI-X 2.0a
MSI-X Support	Yes (for PCI-X)
External Memory Controller Support	n/a
Read-ahead/Write-back Cache	n/a
BBU(Battery Backup Unit) Support	n/a
Product/Supplier	LSI, Intel
LSI SAS 3041X-R/3041E-R Intel SASWT4I/AXX4SASMOD	
Optional Avalibility	
LSI/Intel: ZCR (Zero Channel RAID) Support	

Model	9690SA
Design	RAID HBA
Architecture	Discrete RAID, 8th-generation StorSwitch Non-Blocking Switched Architecture, Hardware RAID
RAID Implementation Method	IOP-base RAID
RAID 5 Support	Yes, Pure Hardware

RAID 6 Support	Yes, Pure Hardware
IOP Support	Yes, PPC405CR at 266MHz, ASIC G133 RAID Engine, 32 pooled DMA channels, AMCC's own ASIC RAID/XOR hardware
HDD Interface Support	SAS v1.1, Compliant with SATA
HDD Speed Support	3Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	8
Wide-port Support	Yes, 4 narrow links/per wide port
Host Bus Support	PCIe v1.1 lane x8
MSI-X Support	Yes
External Memory Controller Support	Yes, DDR2-533MHz, ECC, 512MB fixed memory
Read-ahead/Write-back Cache	Yes
BBU(Battery Backup Unit) Support	Yes
Product/Supplier	LSI/3ware
LSI/3ware 9690SA-8E/4I4E/4I/8I	
Optional Avalibility	
LSI/3ware: StreamFusion+[ACS (Advanced Content Streaming), IRP (Inelligent Read Prefetch), RRR (RapidRAID Recovery), BTAP (Background Task Activity Policy)], StorSave with BBU	

Model	9650SE
Design	RAID HBA
Architecture	Discrete RAID, 8th-generation StorSwitch Non-Blocking Switched Architecture, Hardware RAID
RAID Implementation Method	IOP-base RAID
RAID 5 Support	Yes, Pure Hardware
RAID 6 Support	Yes, Pure Hardware

IOP Support	Yes, PPC405CR at 266MHz, ASIC G133 RAID Engine, 32 pooled DMA channels, AMCC's own ASIC RAID/XOR hardware
HDD Interface Support	SATA v2.6
HDD Speed Support	3Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	8
Wide-port Support	Yes, 4 narrow links/per wide port
Host Bus Support	PCIe v1.1 lane x1/4/8
MSI-X Support	Yes
External Memory Controller Support	Yes, DDR2-533, ECC, 128/256/512MB fixed memory
Read-ahead/Write-back Cache	Yes
BBU(Battery Backup Unit) Support	Yes
Product/Supplier	LSI/3ware
LSI/3ware 9650SE-2LP/4LPML/8LPML/12ML/16ML/24M8	
Optional Avalibility	
LSI/3ware: StreamFusion+[ACS (Advanced Content Streaming), IRP (Inelligent Read Prefetch), RRR (RapidRAID Recovery), BTAP (Background Task Activity Policy)], StorSave with BBU	

PMC
PMC-SIERRA

Model	PM8011 maxSAS SRC 8x6G
Design	RAID HBA
Architecture	RoC (RAID on Chip), RoCstar Contention-Free Architecture, Hardware RAID
RAID Implementation Method	IOP-base RAID
RAID 5 Support	Yes, Pure Hardware
RAID 6 Support	Yes, Pure Hardware

IOP Support	Yes, MIPS 34K at 600MHz, Multi-Threading(2 VPEs, 5 threads), RAID Application Accelerator Engine
HDD Interface Support	SAS v2.0, Compliant with SATA
HDD Speed Support	3Gb/s, 6Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	8
Wide-port Support	Yes, 4 narrow links/per wide port
Host Bus Support	PCIe v3.0 lane x8
MSI-X Support	Yes
External Memory Controller Support	Yes, DDR2-533 to 800MHz, ECC, 512MB fixed memory
Read-ahead/Write-back Cache	Yes
BBU(Battery Backup Unit) Support	Yes
Product/Supplier	HP, Promise
HP: HP Smart Array P410/411/212 Promise: SuperTrak EX8760T/EX8768	
Optional Avalibility	
HP: BBWC [512MB], FBWC [512MB, 1GB], SAAP (Smart Array Advanced Pack) Promise: Perfect RAID Technology, FUA (Force Unit Access)	

Model	PM8013 maxSAS SRC 8x6G
Design	RAID HBA
Architecture	RoC (RAID on Chip), RoCstar Contention-Free Architecture, Hardware RAID
RAID Implementation Method	IOP-base RAID
RAID 5 Support	Yes, Pure Hardware
RAID 6 Support	Yes, Pure Hardware

IOP Support	Yes, three MIPS-based dual-core, Multi-Threading, RAID Application Accelerator Engine
HDD Interface Support	SAS v2.0, Compliant with SATA
HDD Speed Support	3Gb/s, 6Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	8
Wide-port Support	Yes, 4 narrow links/per wide port
Host Bus Support	PCIe v2.0 lane x8
MSI-X Support	Yes
External Memory Controller Support	Yes, DDR2-533 to 800MHz, ECC, 512MB fixed memory
Read-ahead/Write-back Cache	Yes
BBU(Battery Backup Unit) Support	Yes
Product/Supplier	Adaptec by PMC, PMC-Sierra, IBM

Adaptec by PMC: RAID 6805/6445/6405
PMC-Sierra: maxRAID BR5225-80
IBM: ServeRAID B5015 SSD Controller

Optional Avalibility	

Adaptec by PMC: Hybrid RAID 1&10, Zero-Maintenance Cache Protection, Intelligent Power Management

Model	PM8020 maxSAS SRCv 8x6G
Design	RAID HBA
Architecture	RoC (RAID on Chip), RoCstar Contention-Free Architecture, Hardware RAID
RAID Implementation Method	IOP-base RAID
RAID 5 Support	Yes, Pure Hardware
RAID 6 Support	Yes, Pure Hardware

IOP Support	Yes, MIPS-based multi-processor cluster, Multi-Threading, RAID Application Accelerator Engine
HDD Interface Support	SAS v2.1, Compliant with SATA
HDD Speed Support	3Gb/s, 6Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	8
Wide-port Support	Yes, 4 narrow links/per wide port
Host Bus Support	PCIe v3.0 lane x8
MSI-X Support	Yes
External Memory Controller Support	Yes, DDR3-800 to 1600MHz, ECC, Up to 4GB
Read-ahead/Write-back Cache	Yes
BBU(Battery Backup Unit) Support	Yes
Product/Supplier	n/a
n/a	
Optional Availibility	
n/a	

EMULEX

Model	IOC 500S
Design	RAID HBA
Architecture	IOC, *I/O Processor, Emulex SLI (Service Level Interface) Technology
RAID Implementation Method	n/a
RAID 5 Support	n/a
RAID 6 Support	n/a
IOP Support	Yes, *Intel XScale at 800/1200MHz

HDD Interface Support	SAS v1.0, Compliant with SATA
HDD Speed Support	3Gb/s
NCQ (Native Command Queuing)	Yes
64-bit LBA Support	Yes
Port Number	8
Wide-port Support	Yes, 4 narrow links/per wide port
Host Bus Support	PCIe v1.0 lane x8, PCI-X v2.0
MSI-X Support	n/a
External Memory Controller Support	Yes, DDR2-400/533MHz, ECC, Up to 2GB
Read-ahead/Write-back Cache	n/a
BBU(Battery Backup Unit) Support	n/a
Product/Supplier	LSI/3ware
LSI/3ware 9690SA-8E/4I4E/4I/8I *Optional: IOC 500-S2, IOC 500-S3	
Optional Avalibility	
Emulex: BlockGuard	