



Adaptec RAID Series 5Z Competitive Matrix

Adaptec offers unmatched performance and the industry’s most complete data protection. A RAID core hardened by years of use, common cross-platform RAID management tools, quality and world-class support have made Adaptec the industry’s leading RAID provider.

Extensive operating system support, unsurpassed compatibility and centralized storage management make Adaptec Unified Serial RAID controllers the preferred choice.

Model #	Adaptec RAID 5XX5Z	Adaptec RAID 5XX5, 5XXX5	LSI/3ware 9690SA-Series	LSI 8xxxELP	Areca ARC-1680i
HARDWARE & FEATURES					
Technology	SATA/SAS	SATA/SAS	SATA/SAS	SATA/SAS	SATA/SAS
Cache Memory	512 MB DDR2 ECC	512 MB DDR2 ECC	512 MB DDR2 ECC	128/256/512 MB 667 Mhz DDR2 ECC	256 MB DDR2 ECC
Ports (Internal / External)	4 int, 4 int/4 ext, 8 int	4 int, 4 int/4 ext, 8 int, 8 ext, 12 int/4 ext, 16 int/4 ext, 24 int/4 ex	4 int, 4 int/4 ext, 8 int, 8 ext	4 int, 8 int/8 ext, 8 int, 8 ext	4 int, 4 int/4 ext, 8 int, 8 ext, 12 int/4 ext, 16 int/4 ext, 24 int/4 ext
Max HDDs thru Expanders	256	256	128	32-240	128
Physical Dimensions	2.5"H x 6.6"L (64mm x 167mm)	2.5"H x 6.6"L (64mm x 167mm) for MD2 cards; 4.6"H x 6.43"L (116mm x 164mm) for Full Height cards	2.73"H x 7.60"L (6.93cm x 19.30cm)	2.5"H x 6.6"L (64mm x 167mm) for MD2 cards	2.5"H x 6.6"L (62mm x 168mm) for MD2 cards
Form Factor	LPD MD2	LPD MD2, Full Height/Half-length	LP, Half-length	LPD MD2, Full Height/Half-length	LPD MD2, Full Height/Half-length
Internal Connectors	SFF-8087	SFF-8087	SFF-8087	SFF-8087	SFF-8087
External Connectors	SFF-8088	SFF-8088	SFF-8088	SFF-8088	SFF-8088
Host Interface	PCI Express x8	PCI Express x8	PCI Express x8	PCI Express x8	PCI Express x8
XOR Engine	Intel 81348 1.2 GHz Dual Core	Intel 81348 1.2 GHz Dual Core	PPC405CR G133e	LSI 1078 RoC	Intel 81348 800/1.2GHz MHz Dual Core
SAS IOC	RoC	RoC	EMLX 500	RoC	RoC
Intelligent Power Management	✓	✓	No	Not Really	MAID
CACHED DATA PROTECTION					
Battery Backup Unit	No need (has ZMCP)	Optional	Optional	Optional	Optional
Zero Maintenance Cache Protection (ZMCP)	✓				
Cached Data Storage	Up to 10 years	Up to 72 hours	Up to 72 hours	Up to 72 hours	Up to 72 hours
Instant Cache Protection	✓				

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RAID FEATURES					
RAID Levels	0, 1, 1E, 5, 5EE, 6, 10, 50, 60, JBOD	0, 1, 1E, 5, 5EE, 6, 10, 50, 60, JBOD	0, 1, 5, 6, 10, 50, SD	0, 1, 10, 5, 6, 50, 60	0, 1, 1E, 5, 6, 10, 50, 60, JBOD
RAID Level Migration	✓	✓	✓	✓	✓
Online Capacity Expansion	✓	✓	✓	✓	✓
Multiple RAID Arrays	✓	✓	✓	✓	✓
Staggered Spin-up	✓	✓	✓	✓	✓
Flexible Hot Spare Support	✓	✓	✓	✓	✓
Automatic Failover	✓	✓	✓	✓	✓
Optimized Disk Utilization	✓	✓			
Copyback Hot Spare	✓	✓			
OS SUPPORT					
Windows Server/2003/2008/XP/Vista (in the box)	✓	✓			
Red Hat and SUSE Linux	✓	✓	✓	✓	✓
SCO UnixWare and Open Server	✓	✓		✓	✓
FreeBSD	✓	✓	✓	✓	✓
Solaris 10 (x86)	✓	✓	✓	✓	✓
VMware ESX 3.x, ESXi 3.x, vSphere	✓	✓	✓	✓	✓



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