

Escalade™ Selection Guide

Escalade 7000 Series Selection Guide				High Performance RAID 5*	
Model	7210 2-port	7410 4-port	7810 8-port	7450 4-port	7850 8-port
ATA drives supported	2 ATA drives	4 ATA drives	8 ATA drives	4 ATA drives	8 ATA drives
RAID levels supported	0, 1, JBOD	0, 1, 10, 5, JBOD	0, 1, 10, 5, JBOD	RAID 5* 0, 1, 10, JBOD	RAID 5* 0, 1, 10, JBOD
Key Features	<ul style="list-style-type: none"> • Striping • Fault Tolerance 	<ul style="list-style-type: none"> • Striping • Fault Tolerance • Medium capacity 	<ul style="list-style-type: none"> • Highest capacity • Linux support 	<ul style="list-style-type: none"> • High performance RAID 5 • Medium capacity 	<ul style="list-style-type: none"> • High performance RAID 5 • Highest capacity
Target Use	Entry-level RAID for optimum READ Performance in a mirrored application	Optimum storage density and performance using RAID 0, 1, 10 or JBOD in server applications	Maximum storage density using RAID 0 or JBOD and ultimate READ performance in a mirrored application (RAID 1 or 10)	Medium capacity in server-class applications requiring high-performance RAID 5*	Maximum capacity and performance for dedicated storage platforms requiring high-performance RAID 5*
Key Applications	<ul style="list-style-type: none"> • Video Editing • Graphic Design • Fault tolerant workstations 	<ul style="list-style-type: none"> • Real-time nonlinear editing • Video and audio production • Web servers 	<ul style="list-style-type: none"> • Web server farm • Affordable large scale storage 	<ul style="list-style-type: none"> • Workgroup/email server with data protection • Backup Server (tape replacement) 	<ul style="list-style-type: none"> • Enterprise, secure file servers • Online transaction processing • Database Applications

*Accelerated RAID 5 writes performance up to 500% better than standard RAID 5

Escalade Features and Benefits

- Non-blocking switch fabric delivers high reliability and performance
- On-board processor minimizes host CPU overhead
- R5 Fusion™ technology for accelerated RAID 5 writes
- SCSI device driver interface for O/S compatibility and application integration
- Browser-based 3ware Disk Management (3DM™) utility with password security network management of 3ware storage arrays
- SMTP support for email / pager notification of events notification of warnings and errors
- BIOS or 3DM configuration utility ease of installation and management
- BIOS BBS supports booting from the array
- Multiple logical volumes and RAID levels can exist on one card for configuration flexibility
- Multiple card support within a system for very large storage systems, up to 4.8 terabytes with 4 Escalade 78xx controllers and 160 GByte drives
- Hot-swap and hot-spare support enables swapping defective drives without downtime
- Dynamic sector repair transparently repairs RAID arrays from redundant data for robust data protection
- S.M.A.R.T. disk drive monitoring can detect failing drives before they cause downtime

Specifications:

Form Factor	PCI Universal (5v/3v) short card
PCI Compatibility	PCI 2.2 compliant 64-bit/32-bit bus master
ATA Interface	Auto-sensing Ultra ATA-133/100/66/33
BIOS	BIOS plug and play (PnP) and BBS compliant
Operating Temperature	0 to 40 degrees C
Power Requirements	5W maximum on +5v, 0.25W maximum on -12v
Software provided	Windows® and Linux® drivers, 3DM Disk Management Utility
Compatibility	Check 3ware's web site at http://www.3ware.com/products/Ecompatibility for latest motherboard and drive compatibility
OS Support	<p>Windows 98/ME/NT4.0/2000/XP</p> <p>Red Hat Linux 6.2, 7.1, 7.2</p> <p>SuSE Linux 6.4, 7.2, 7.3</p> <p>Linux driver available through open source kernel 2.2.15 and later</p> <p>BSD drive available in open source</p>

