

Feature	3ware 9590SE	3ware 9650SE	9650SE Advantage
Performance			
RAID 5 reads sequential (MB/s)	>800	>800	
RAID 5 writes sequential (MB/s)	>380	>650	✓
RAID 6 reads sequential (MB/s)	N/A	>700	✓
RAID 6 writes sequential (MB/s)	N/A	>600	✓
Board Configurations			
2-port low profile		✓	✓
4-port low profile		✓	✓
8-port low profile	full height only	✓	✓
12-port	✓	✓	
16-port	✓	✓	
24-port		✓	✓
Port count (maximum)	16	24	✓
Low profile (maximum port count)	No low profile	8	✓
Native PCI Express		✓	✓
Connectivity			
PCI Express x1		✓	✓
PCI Express x4	✓	✓	
PCI Express x8		✓	✓
Onboard cache memory (maximum)	256MB	512MB	✓
Memory speed	DDR2 400	DDR2 533	✓
RAID levels: 0, 1, 5, 6, 10, 50, Single Disk, JBOD	No RAID 6	✓	✓
StreamFusion: RAID 5 caching	✓	✓	
StreamFusion: RAID 6 caching	N/A	✓	✓
StorSwitch: non-blocking switch fabric	✓	✓	
32 DMA channels	✓	✓	

StorSave			
BBU	✓	✓	
72 hours of protection	✓	✓	
Write journaling	✓	✓	
Secondary power loss support	✓	✓	
Missing array detection	✓	✓	
Dynamic sector repair	✓	✓	
Drive power-on reset protection (Drive POR)	✓	✓	
Extensive drive timeout recovery	✓	✓	
Out of Band signaling retry (OOB)	✓	✓	
StorSave Profiles (StorSave II)	✓	✓	
Multi-lane connectivity	✓	✓	
SATA II features			
3 Gbps (maximum)	✓	✓	
NCQ	✓	✓	
Robust RAID management feature set			
Web-based components	✓	✓	
Command-based components	✓	✓	
API software components	✓	✓	
Hardware RAID w/on-board processor	✓	✓	
Bootable array support (over 2TB arrays)	✓	✓	
Online capacity expansion (OCE)	✓	✓	
Enclosure management via I2C	✓	✓	
RAID level migration (RLM)	✓	✓	
Stripe size migration	✓	✓	