

Hardware

Motherboard:	Supermicro X9SRL-F	Model:	MS28X12G
CPU:	Intel Xeon E5 2603 V2	Interface:	Mini-SAS SFF 8644
Speed:	1.8GHz	SDD:	Enterprise 1TB SATA III (x8)
Memory:	4GB Single-Channel DDR3 @ 666MHz		
Controller:	Areca ARC-1883X		
OS:	Windows Server 2012 R2 x64		

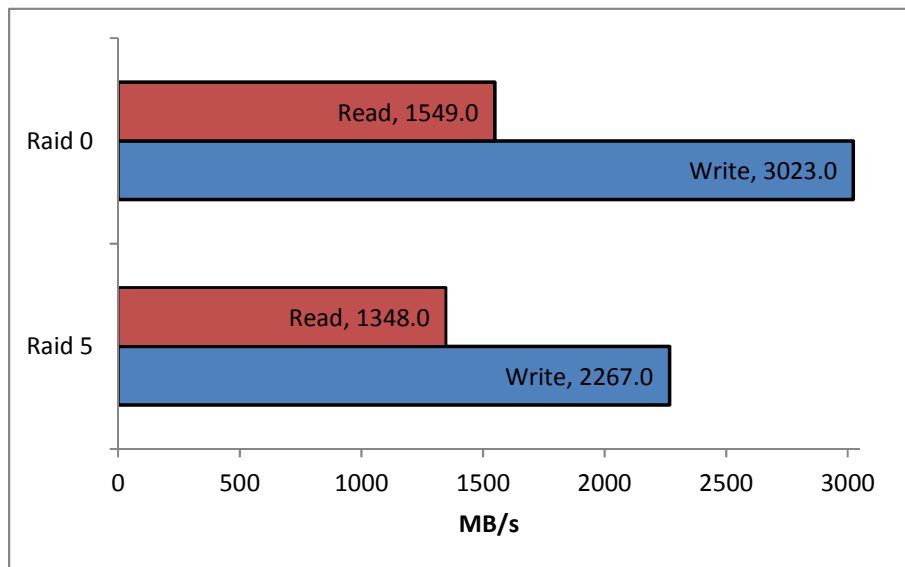
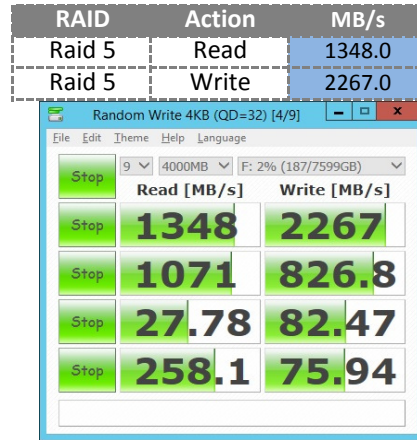
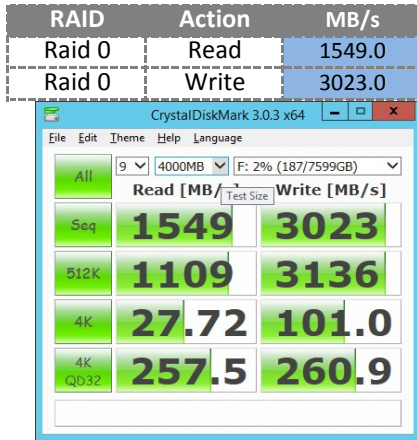
Features

JBOD Enclosure 2 SFF 8644 Channels(4 drives per) 8 2.5" Bays (Hot Swappable) 1 Rear Case Fan PSU cooling fan Fan Fail Detection

Performance

Crystal Disk Mark

File Size: 4 GB
Intervals: 9
Mode: RAID 0/5



Performance (cont'd)

MTI Benchmark

File Size: 100 GB
Mode: RAID 0/5

RAID	Action	MB/s
Raid 0	Read	1542.3
Raid 0	Write	3355.8

Filename: f:\junk10.dat
File Size (Bytes): 100000000000
Start Pos (Bytes): 0
Chunk Size (Blocks): 5400 HD 10-bit Field
Iterations: 10
Memory: GlobalAlloc()

Write 14 (9 of 10): 3351.992 MB/s
Write 15 (10 of 10): 3349.689 MB/s
Average for 10: 3355.751 MB/s

Read 16 (1 of 10): 1539.16 MB/s
Read 17 (2 of 10): 1538.22 MB/s
Read 18 (3 of 10): 1539.68 MB/s
Read 19 (4 of 10): 1540.85 MB/s
Read 20 (5 of 10): 1542.24 MB/s
Read 21 (6 of 10): 1542.78 MB/s
Read 22 (7 of 10): 1543.61 MB/s
Read 23 (8 of 10): 1544.09 MB/s
Read 24 (9 of 10): 1545.44 MB/s
Read 25 (10 of 10): 1547.01 MB/s
Average for 10: 1542.31 MB/s

Avg: 1547.03 MB/s
Last: 1534.22 MB/s
Min: 1501.90 MB/s
Max: 1627.41 MB/s

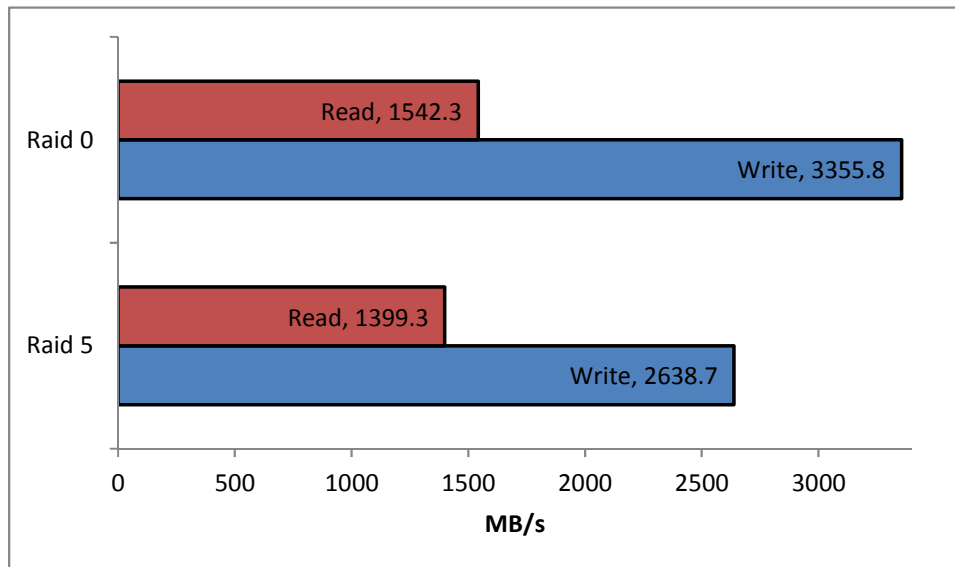
RAID	Action	MB/s
Raid 5	Read	1399.3
Raid 5	Write	2638.7

Filename: f:\junk10.dat
File Size (Bytes): 100000000000
Start Pos (Bytes): 0
Chunk Size (Blocks): 5400 HD 10-bit Field
Iterations: 10
Memory: GlobalAlloc()

Read 34 (9 of 10): 1400.46 MB/s
Read 35 (10 of 10): 1399.30 MB/s
Average for 10: 1399.33 MB/s

Write 36 (1 of 10): 2643.412 MB/s
Write 37 (2 of 10): 2641.812 MB/s
Write 38 (3 of 10): 2641.053 MB/s
Write 39 (4 of 10): 2632.948 MB/s
Write 40 (5 of 10): 2641.330 MB/s
Write 41 (6 of 10): 2635.171 MB/s
Write 42 (7 of 10): 2637.687 MB/s
Write 43 (8 of 10): 2638.334 MB/s
Write 44 (9 of 10): 2637.169 MB/s
Write 45 (10 of 10): 2637.707 MB/s
Average for 10: 2638.662 MB/s

Avg: 2637.73 MB/s
Last: 2438.12 MB/s
Min: 2249.94 MB/s
Max: 3601.29 MB/s



Note

HDD Tray LEDs

	Status	Activity	Failed HDD
Top LED	Solid Blue	Solid Blue	Solid Blue
Bottom LED	n/a	Blinking Blue	Solid Red