

maxRAID: Revolutionizing Storage

Efficient. Fast. Long-lasting Storage for Cloud and Modern Databases.

This evaluation compares a 19TB high-performance storage system, assessing **maxRAID** against conventional RAID solutions like MD RAID, Xinnor, and GRAID. While conventional RAID depends on high-endurance SSDs for longevity, **maxRAID** delivers optimized performance with lower-endurance drives. By leveraging data compression and advanced optimizations that reduce wear, **maxRAID** ensures consistent, long-lasting performance. We assume 20% data compressibility for general-purpose data.

	RAID-10	RAID-5	maxRAID-5	
Performance	Good	Poor	Good	
Drives	6	4	6	
Drive type ¹	6.40 TB	6.40 TB	3.84 TB	
Drive Cost ¹	\$6,672	\$4,448	\$3,234	

Day-1 Savings **\$3,438** vs. RAID-10

maxRAID-5 delivers better performance at half the cost of RAID-10. While RAID-5 may seem similar upfront, its poor performance often makes it unacceptable, and rapid media wear leads to costly long-term expenses.

With maxRAID's advanced wear optimization, you save on costs and can use lower-cost drives—without sacrificing performance.

\$5,662
in 5 years with
maxRAID vs. RAID-5

RAID-10	RAID-5	maxRAID-5	
5 years	2.9 years	5+ years	SSD Life
\$0	\$4,448	\$0	5-year SSD Repl. Cost ¹



Fewer drives, more capacity.



Reduced Day-1 and long-term costs.



Extend SSD lifespan with peak performance

How does maxRAID work

maxRAID revolutionizes storage with advanced Host FTL architecture. It optimizes data flow, converting random writes into efficient, sequential patterns, compressing data in real-time, and reducing SSD wear. The result? Lower latency, more usable capacity, and sustained performance that outlasts traditional RAID systems.

1: Based on Micron 3 DWPD 6.4TB \$1112, maxRAID uses 1 DWPD 3.84TB \$539. Drive costs only; excludes host system and software

maxRAID delivers lower costs, sustained performance, and longer-lasting storage

+1-888-473-7866 WildFire Storage wildfire-storage.com