ServerSAN Compares

This is only enterprise key features compares, for full features list, please refer to each corresponding product page

Feature Name	KernSafe iSCSI SAN	XTremeSAN
Platform	Windows, Linux, macOS	Linux 3.10+
IO Model	Traditional	Polling Mode (Lock Free)
Design for	Lightweight, More Features	High Performance (HPC etc.)
Storage Interface	iSCSI	iSCSI, iSER, NVMe-oF, vHost
Storage & Business Network	TCP/IP	TCP/IP, RDMA (InfiniBand, RoCE, iWarp)
Data Replication Method	Target-to-target	Object level replication
Remote Replication	HA, Async/Sync Rep.	Async/Sync Remote Rep.
Multipath	Active-Active HA	Active-Active HA, NVMe ANA
Backend Storage	Physical disk, partition, many images, Security Folder, CD-ROM/RW/RAM, any SCSI devices.	HDD, SSD, NVMe (Kernel /User mode), partition, raw images.
Shared Storage	JBOD etc.	Shared JBOD, JBOF, EBOF etc.
Maximum IOPS per target	50K	1M+ (Hardware performance)
Latency	<250µs	<100µs
Dynamic SDS Pool (Controller)	Single node only	Cross node HA
Replication Method	Raid1, Raid5	N-ways, Large Scaled EC
Maximum Device per Node	Unlimited	200
Server Pool	Listen to different interface or port	Same or different interface and port
Memory Management	System Provided	huge page pooled management
Split brain protection	Multiple hart-beats	Witness
Storage Journal Data Protection	No	Yes
Misc.	Multi-Lun, Distributed iSCSI SAN, SCSI Passthrough, Virtual Write, CDP	OS Bypass, Full-offload, Hot plug, hot replace /swap, auto recovery
Management Console	Windows native, RESTful, WEB	RESTful, WEB, command line

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