

Flash R-R

High Performance All Flash Appliance

Powered by
FlexiRemap[®]



BIOS IT is excited to introduce the Flash R-R, a 1U rack-mount all flash storage solution, featuring 500K sustained IOPS performance with 5TB usable storage capacity and high-speed, 10GbE, InfiniBand or 16Gbit/s Fibre Channel connectivity, in partnership with AcceleStor, the software-defined all-flash array provider. Utilising AcceleStor's FlexiRemap flash-management software technology, the compact, high-value 1U flash appliance saves rack space while providing outstanding I/O performance without costly proprietary hardware. The Flash R-R's high-throughput, InfiniBand connectivity allows the full performance of all-flash acceleration to be realised.

FLEXIREMAP TECHNOLOGY

FlexiRemap technology is flash-oriented software developed by AcceleStor. Flash R-R's all-flash arrays with FlexiRemap technology are excellent solutions to the problem of effectively handling intensive random writes and I/O workloads. FlexiRemap software features a unique architectural re-design that speeds up random I/O requests, a major cause of storage-access slowdowns. Unlike RAID algorithms, FlexiRemap remaps data whenever beneficial before passing it to the underlying flash memory, avoiding unnecessary overhead and extending the lifespan of SSDs.

FlexiRemap's unique algorithm prevents unnecessary I/O overhead, while providing excellent storage performance, enhanced data protection, and maximized lifespan. FlexiRemap ensures that BIOS IT's range meets the stringent performance demands of all kinds of mission critical applications. Conventional HDD based disk arrays or RAID systems are good for manageable working sets and sequential writes. However, when it comes to consolidated missions and high performance analytics, all-flash appliances such as the Flash R-R, with FlexiRemap technology are the best solutions for handling intensive random writes and additional I/O workloads.

GET IN TOUCH

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Flash R-R Benefits



SMALL
FORM FACTOR



EXTENDS
SSD LIFESPAN



PREVENTS I/O
OVERHEAD

Key Features

- High value 1U flash appliance saves rack space while providing outstanding I/O performance without costly proprietary hardware.
- FlexiRemap remaps the data whenever beneficial before passing it to the underlying flash memory, avoiding unnecessary overhead and extending the lifespan of SSDs.
- FlexiRemap's unique algorithm prevents unnecessary I/O overhead, while providing excellent storage performance, enhanced data protection, and maximized lifespan.

SPECIFICATIONS	SSD TYPE	TOTAL SSD CAPACITY	USABLE ARRAY CAPACITY	PERFORMANCE FOR 4KB RANDOM WRITES	CONNECTIVITY OPTION	PROTOCOL SUPPORT
SKU1	10 x Hot Swappable 2.5" SSD 800GB	8.0TB	4.6TB	500K IOPS Sustained	1 x 56Gb/s IB FDR QSFP	SAN: iSER/iSCSI NAS: NFS, CIFS/SMB
SKU2	10 x Hot Swappable 2.5" SSD 800GB	8.0TB	4.6TB	360K IOPS Sustained	2 x 16GFC LC SFP+	SAN: Fibre Channel
SKU3	10 x Hot Swappable 2.5" SSD 800GB	8.0TB	4.6TB	360K IOPS Sustained	4 x 10GbE SFP+	SAN: iSCSI NAS: NFS, CIFS/SMB
SKU4	8 x Hot Swappable 2.5" SSD 400GB	3.2TB	1.7TB	300K IOPS Sustained	2 x 10GbE SFP+	SAN: iSCSI NAS: NFS, CIFS/SMB
SKU5 (2 Nodes in 2U) Active-Active HA	24 x Hot Swappable 2.5" SSD 800GB	19.2TB	5.8TB	360 IOPS Sustained	4 x 10GbE SFP+ (2 per Node)	SAN: iSCSI

CUSTOM CONFIGURATIONS ACROSS CAPACITY, FORM FACTOR AND SUPPORT ARE ALSO AVAILABLE.

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