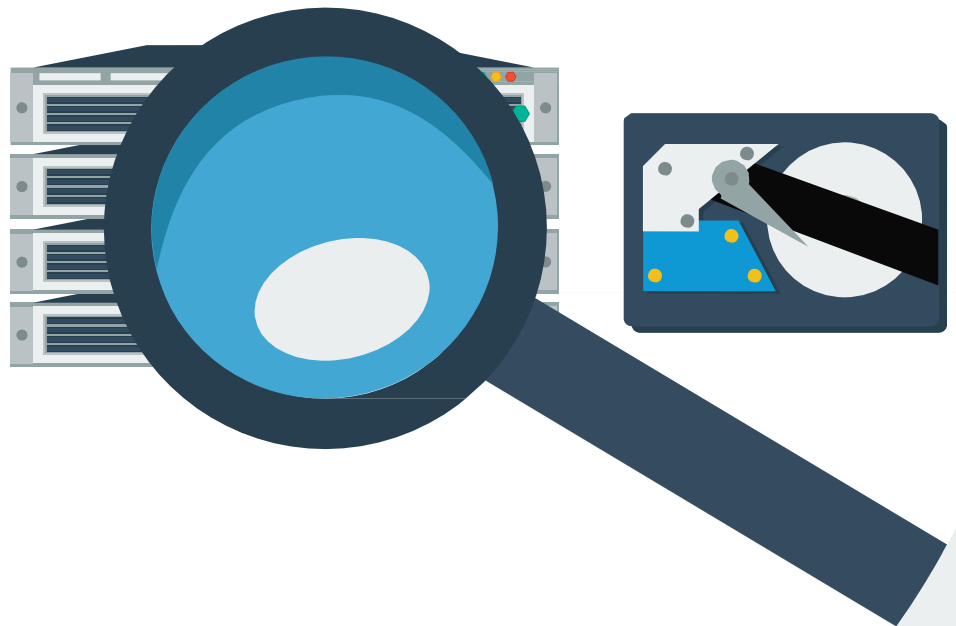
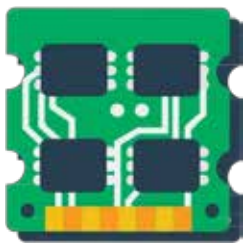


syneto

# PRODUCT CATALOG



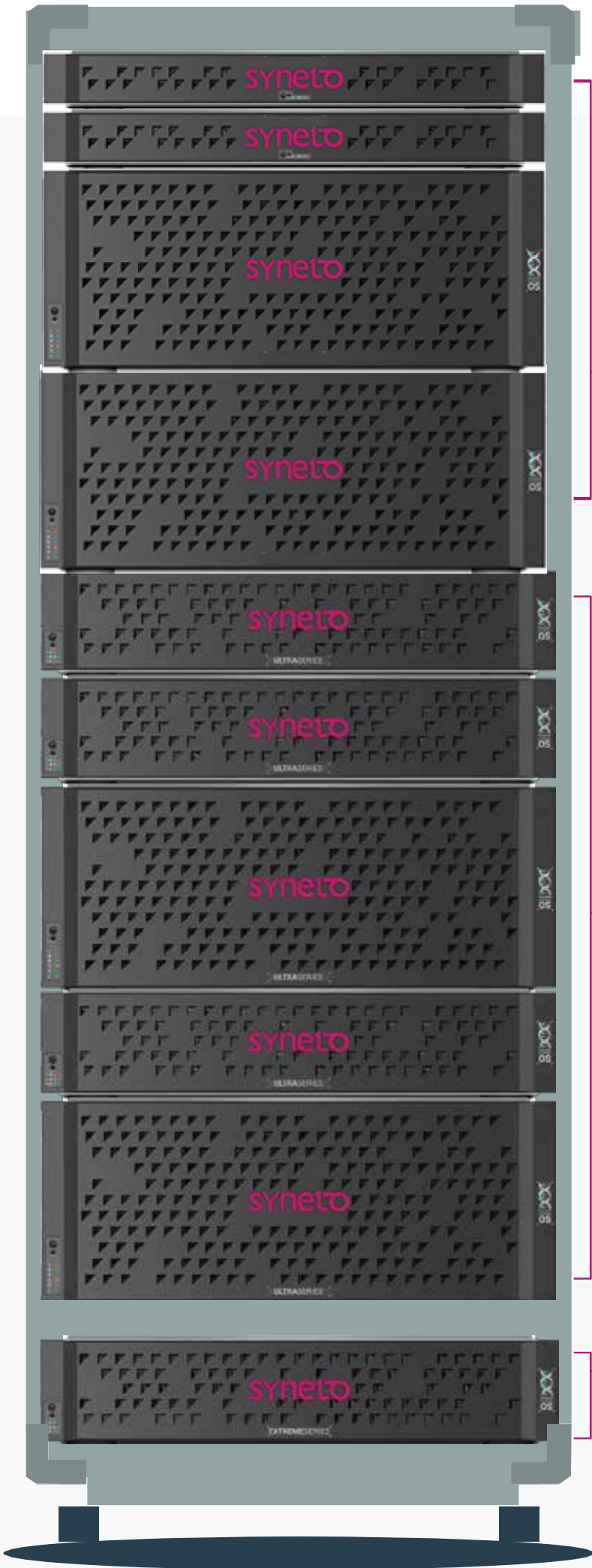
# THE SUMMARY



[CLUSTER SERIES - pg. 3](#)

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[EXTREME SERIES - pg. 9](#)



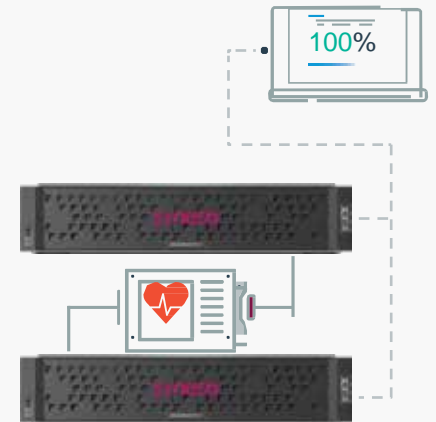
# CLUSTER SERIES



## THE HIGH DENSITY STORAGE FOR ARCHIVE AND BACKUP

### When downtime is not an option

Downtime is not an option when your storage hosts hundreds of virtual machines and countless gigabytes of data essential to your organization. The CLUSTER Series is equipped with the PowerCluster technology. With this technology, multiple Syneto storage arrays can be linked together to form a high availability cluster, allowing non-disruptive updates/upgrades without a single point of failure.

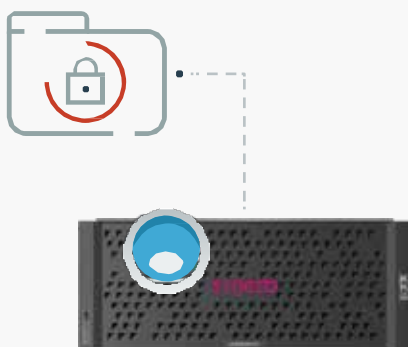


### Truly unlimited scalability

With the CLUSTER Series you can easily expand available storage space anytime you want by simply adding more drives. Scaling up storage space is done transparently and with no system downtime.

### Disaster recovery made easy

Organizations are losing billions every year due to missing backups for sensitive and important data. The InstaSnap technology inside the CLUSTER Series allow instantaneous snapshots that can be incrementally replicated on/off site.

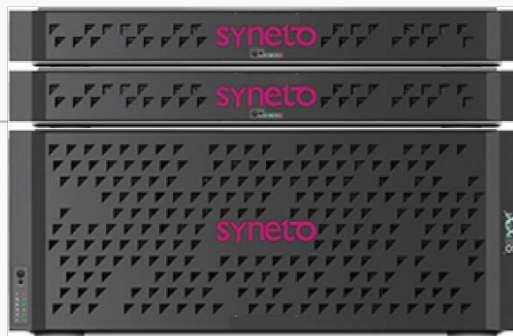


### Data integrity. Forever

Other storage systems guarantee that a data is not damaged but they won't guarantee that it is the same data that was written. That's why the Syneto CLUSTER Series arrays incorporate advanced data safeguarding technologies like IntegriCheck. These measures prevent and fix inconsistencies and silent data corruption.

# SPECIFICATIONS

## CLUSTER-110



Chassis	2x1U rack-mountable with JBOD
Supported drive types	15K rpm SAS, 10K rpm SAS, 7.2K rpm SAS, SAS SSD
Raw Capacity	12TB, expandable to 96TB
Connectivity	2x1 GbE onboard, optional 10 GbE card or 8 Gb FC, 4 port GbE card
Processor	Dual Intel Xeon E5 8-core
1st level RAM cache	128 GB
Power supply	2x700W / 750W (redundant)
Protocols	NFS, CIFS, AFP, ISCSI, FC, HA
Software	Syneto Storage OS, Snapshot Replication, VXClone, Integrated Support, HA
Solution for	Virtualization, Disaster Recovery, HSM Archiving, Backup, Digital Media Storage
Efficiency tech.	Thin provisioning, In-line compression, Deduplication, Adaptive cache
Software Raid	RAIDz1, RAIDz2, Striped, Mirror

## CLUSTER-210



Chassis	2U Dual Cluster Node Chassis
Supported drive types	15K rpm SAS, 10K rpm SAS, 7.2K rpm SAS, SAS SSD
Raw Capacity	10TB, expandable to 285TB
Connectivity	Dual port 10 GbE onboard
Processor	Dual Intel Xeon E5 8-core
1st level RAM cache	256 GB
Power supply	2x1200W (hot-plug) or 2x1600W (hot-plug)
Protocols	NFS, CIFS, AFP, ISCSI, FC, HA
Software	Syneto Storage OS, Snapshot Replication, VXClone, Integrated Support, HA
Solution for	Virtualization, Disaster Recovery, HSM Archiving, Backup, Digital Media Storage
Efficiency tech.	Thin provisioning, In-line compression, Deduplication, Adaptive cache
Software Raid	RAIDz1, RAIDz2, Striped, Mirror

# ULTRA SERIES



## HYBRID UNIFIED STORAGE DESIGNED FOR MIXED WORKLOADS

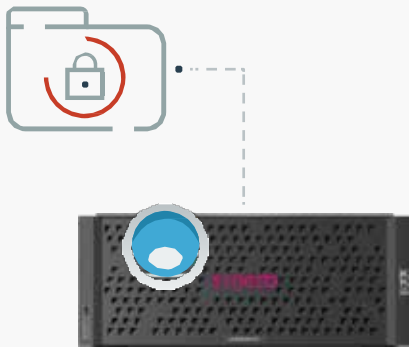
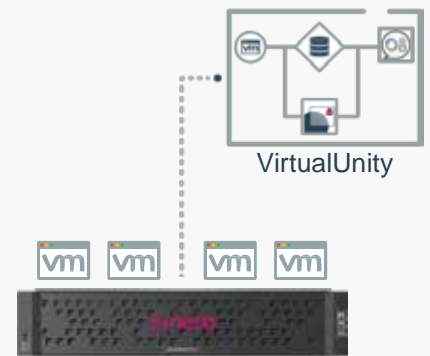


### Productivity at its best

ULTRA Series is built for performance. Using the FlexPool technology with fast, flash-based read/write acceleration layers, it offers huge performance boosts for apps in virtualized and private cloud environments.

### Unified with your VMware

The ULTRA Series is equipped with the VirtualUnity technology which allows complete integration with VMware infrastructures. This allows fast, incremental consolidated snapshots of any VMware virtual machine. This ensures always-consistent virtual machines and provides easy, one-click VM recovery.

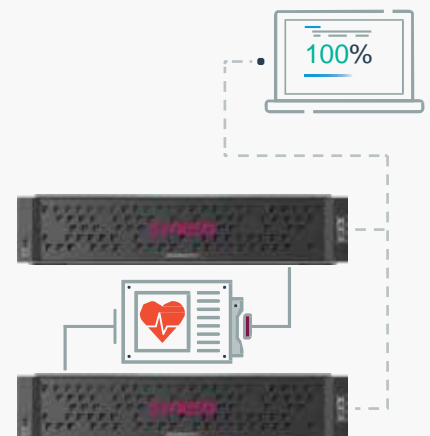


### Data integrity. Forever

Other storage systems guarantee that a data is not damaged but they won't guarantee that it is the same data that was written. That's why the Syneto ULTRA Series arrays incorporate advanced data safeguarding technologies like IntegriCheck. These measures prevent and fix inconsistencies and silent data corruption.

### When downtime is not an option

Downtime is not an option when your storage hosts hundreds of virtual machines and countless gigabytes of data essential to your organization. The ULTRA Series is equipped with the PowerCluster technology. With this technology, multiple Syneto storage arrays can be linked together to form a high availability cluster, allowing non-disruptive updates/upgrades without a single point of failure.



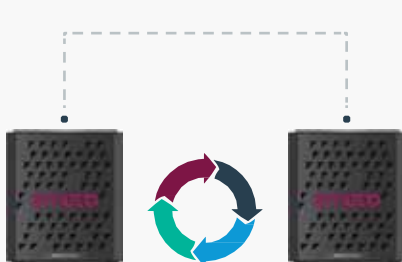
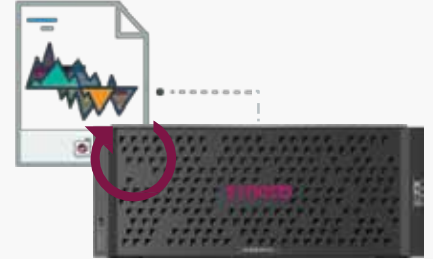


## Truly unlimited scalability

With the ULTRA Series you can easily expand available storage space anytime you want by simply adding more drives. Scaling up storage space is done transparently and with no system downtime.

## Disaster recovery made easy

Organizations are losing billions every year due to missing backups for sensitive and important data. The InstaSnap technology inside the ULTRA Series allow instantaneous snapshots that can be incrementally replicated on/off site.



## Disaster Recovery hardware bundle

We know how important it is to keep your data safe in case of a disaster. That is why we have created the most cost-effective Disaster Recovery bundle, with offsite snapshot replication, on the market.

## SPECIFICATIONS

### ULTRA-220



Chassis	2U rack-mountable, 12 bays + 2 OS disks (hot swappable)
Supported drive types	15K rpm SAS, 10K rpm SAS, 7.2K NL-SAS, SSD SAS
Raw Capacity	from 10TB, expandable to 792TB
Connectivity	4x1 Gbps Ethernet + 10 Gbps Ethernet / 8 Gbps FC / InfiniBand
Processor	2 x Intel Xeon E5 6-Core
1st level RAM cache	128GB
Power supply	920 W redundant power supply
Protocols	NFS, AFP, CIFS, iSCSI, FC
Software	Syneto Storage OS, Snapshot Replication, VXClone, Integrated Support
Solution for	mixed workloads, private clouds, SMB storage, virtualization, databases
Efficiency tech.	thin provisioning, deduplication, in-line compression, adaptive cache
VMware optimization	VAAI copy offload, VXClone, VMware datacenter plugin
Software Raid	RAIDz1, RAIDz2, Striped, Mirror

# ULTRA-210



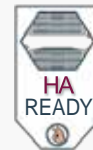
Chassis	2U rack-mountable, 12 bays + 2 OS disks (hot swappable)
Supported drive types	15K rpm SAS, 10K rpm SAS, 7.2K NL-SAS, SSD SAS
Raw Capacity	from 10TB, expandable to 792TB
Connectivity	4x1 Gbps Ethernet + 10 Gbps Ethernet / 8 Gbps FC / InfiniBand
Processor	Intel Xeon E5 6-Core
1st level RAM cache	64GB
Power supply	920 W redundant power supply
Protocols	NFS, AFP, CIFS, iSCSI, FC
Software	Syneto Storage OS, Snapshot Replication, VXClone, Integrated Support
Solution for	mixed workloads, private clouds, SMB storage, virtualization, databases
Efficiency tech.	thin provisioning, deduplication, in-line compression, adaptive cache
VMware optimization	VAAI copy offload, VXClone, VMware datacenter plugin
Software Raid	RAIDz1, RAIDz2, Stripped, Mirror

# ULTRA-410



Chassis	4U rack-mountable, 36 bays + 2 OS disks (hot swappable)
Supported drive types	15K rpm SAS, 10K rpm SAS, 7.2K NL-SAS, SSD SAS
Raw Capacity	from 10TB, expandable to 936TB
Connectivity	4x1 Gbps Ethernet + 10 Gbps Ethernet / 8 Gbps FC / InfiniBand
Processor	Intel Xeon E5 6-Core
1st level RAM cache	128GB
Power supply	1280W Redundant High-efficiency Digital Power Supplies
Protocols	NFS, AFP, CIFS, iSCSI, FC
Software	Syneto Storage OS, Snapshot Replication, VXClone, Integrated Support
Solution for	mixed workloads, private clouds, SMB storage, virtualization, databases
Efficiency tech.	thin provisioning, deduplication, in-line compression, adaptive cache
VMware optimization	VAAI copy offload, VXClone, VMware datacenter plugin
Software Raid	RAIDz1, RAIDz2, Stripped, Mirror

# ULTRA-220



Chassis	2U rack-mountable, 12 bays + 2 OS disks (hot swappable)
Supported drive types	15K rpm SAS, 10K rpm SAS, 7.2K NL-SAS, SSD SAS
Raw Capacity	from 10TB, expandable to 792TB
Connectivity	4x1 Gbps Ethernet + 10 Gbps Ethernet / 8 Gbps FC / InfiniBand
Processor	2 x Intel Xeon E5 6-Core
1st level RAM cache	128GB
Power supply	920 W redundant power supply
Protocols	NFS, AFP, CIFS, iSCSI, FC
Software	Syneto Storage OS, Snapshot Replication, VXClone, Integrated Support
Solution for	mixed workloads, private clouds, SMB storage, virtualization, databases
Efficiency tech.	thin provisioning, deduplication, in-line compression, adaptive cache
VMware optimization	VAAI copy offload, VXClone, VMware datacenter plugin
Software Raid	RAIDz1, RAIDz2, Stripped, Mirror

# ULTRA-420



Chassis	4U rack-mountable, 36 bays + 2 OS disks (hot swappable)
Supported drive types	15K rpm SAS, 10K rpm SAS, 7.2K NL-SAS, SSD SAS
Raw Capacity	from 10TB, expandable to 936TB
Connectivity	4x1 Gbps Ethernet + 10 Gbps Ethernet / 8 Gbps FC / InfiniBand
Processor	2 x Intel Xeon E5 6-Core
1st level RAM cache	256GB
Power supply	1280W Redundant High-efficiency Digital Power Supplies
Protocols	NFS, AFP, CIFS, iSCSI, FC
Software	Syneto Storage OS, Snapshot Replication, VXClone, Integrated Support
Solution for	mixed workloads, private clouds, SMB storage, virtualization, databases
Efficiency tech.	thin provisioning, deduplication, in-line compression, adaptive cache
VMware optimization	VAAI copy offload, VXClone, VMware datacenter plugin
Software Raid	RAIDz1, RAIDz2, Stripped, Mirror



# EXTREME SERIES



## ALL-FLASH STORAGE FOR HIGH PERFORMANCE WORKLOADS

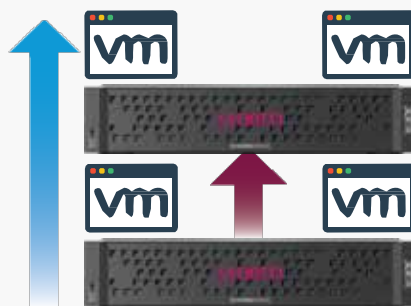
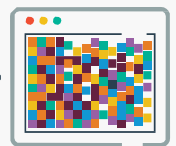


### Smooth VDI operations, all the way

VDIs generate a lot of random IO spikes. We created the EXTREME Series to seamlessly handle thousands of virtual desktops, the hundreds of thousands of IOPS and the varied workloads they generate every day.

### All flash, all speed architecture

EXTREME Series is a storage array capable of consistently delivering over 450k IOPS. High throughput and low latency results in a performance boost for server and desktop virtualization, databases, big data engines, private clouds and next-gen technical applications.



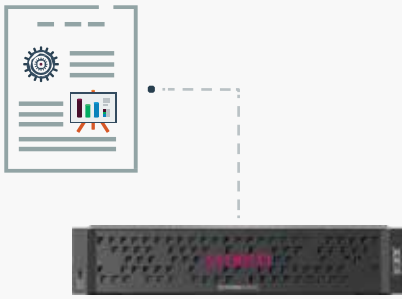
### Flexible upgrades, modular growth

The EXTREME Series can be expanded painlessly with the FlexPool technology by simply adding bigger flash drives or JBOD expansions. Additionally, the VXClone technology allows you to instantly clone any virtual machine without any additional resource consumption.

### Flash storage, made affordable

All-flash storage only makes sense with a low TCO. EXTREME arrays use Syneto's SpaceBoost technology to enable live data reduction. This means in-line deduplication and compression allow you to store up to 5x more data in the same space, keeping TCO low.



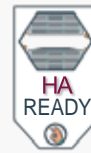


## Flexible upgrades, modular growth

The EXTREME Series can be expanded painlessly with the FlexPool technology by simply adding bigger flash drives or JBOD expansions. Additionally, the VXClone technology allows you to instantly clone any virtual machine without any additional resource consumption.

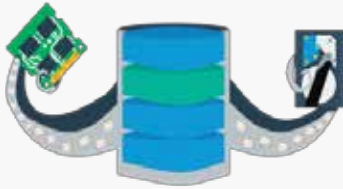
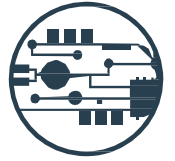
## SPECIFICATIONS

### EXTREME-220



Chassis	2U rack-mountable, 24 bays + 2 OS disks (hot swappable)
Supported drive types	SSD SATA, SSD SAS
Raw Capacity	from 2TB, expandable to 144TB
Connectivity	4x1 Gbps Ethernet + 10 Gbps Ethernet / 8 Gbps FC / InfiniBand
Processor	2 x Intel Xeon E5 6-Core
1st level RAM cache	256GB
Power supply	920 W redundant power supply
Protocols	NFS, AFP, CIFS, iSCSI, FC
Software	Syneto Storage OS, Snapshot Replication, VXClone, Integrated Support
Solution for	VDI (virtual desktops), high performance databases, fast applications
Efficiency tech.	thin provisioning, deduplication, in-line compression, adaptive cache
VMware optimization	VAAI copy offload, VXClone, VMware datacenter plugin
Software Raid	RAIDz1, RAIDz2, Stripped, Mirror

# STORAGE TECHNOLOGIES



## FlexPool

Brings together disk and flash management in a unified data pool.



## InstaSnap

Point-in-time data snapshots for easy backup, replication and recovery.



## VirtualUnity

VMware integration for fast and easy virtual machine management.



## IntegriCheck

Ensures long-term data integrity with smart control instruments.



## PowerCluster

Active-active high-availability cluster for mission critical environments.



## VMBox

Combines storage and compute to create a converged storage array.



## SpaceBoost

Data reduction techniques to squeeze more data in the same space.

## KEEP IN TOUCH



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