

**SPECTRA****BlackPearl®**
Network Attached Storage

BlackPearl® Network Attached Storage

Easily and affordably manage data while planning for the future with BlackPearl Network Attached Storage (NAS) traditional file system (CIFS/NFS). The multi-functional BlackPearl NAS works in a myriad of workflows serving as:

- **Storage for mid-tier data**
- **Data staging**
- **Primary storage offload**
- **Backup and archive**

Reliable, economical and archive-ready, Spectra BlackPearl NAS simplifies the data storage process. Protect your investment with Spectra's TranScale upgrade path and unlock limitless storage possibilities and multiple storage targets by upgrading the BlackPearl NAS to a BlackPearl Converged Storage System.



Affordable

BlackPearl NAS is the most affordable enterprise storage on the market. At pennies per gigabyte, BlackPearl NAS makes it possible to keep up with data growth while keeping digital assets protected and preserved. BlackPearl NAS's expansion node architecture allows you to scale seamlessly and affordably without increasing your data center footprint.



Flexible

Spectra's BlackPearl NAS delivers a complete mix and match of storage and interface options – all supported simultaneously. BlackPearl NAS data can be pushed to a BlackPearl Converged Storage System via Spectra NFI to send content to tape, cloud or other storage tiers.



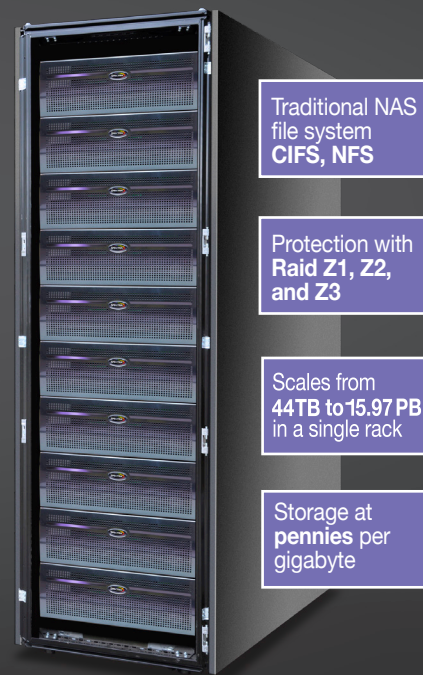
Reliable

With three levels of protection RAID Z1, Z2 and Z3, global spare drives, redundant power, HotPair, and intelligent drive rebuild, BlackPearl NAS is a dependable part of your storage strategy. BlackPearl NAS can also replicate itself using asynchronous replication to another BlackPearl NAS, creating a second copy of an organization's stored data.



Simple

For straightforward setup and management, BlackPearl NAS provides an easy-to-navigate GUI. For environments requiring lights-out monitoring, the AutoSupport function lets BlackPearl NAS "phone home" with messages and automatically generate AutoSupport Logs (ASL) for use by the user and SpectraGuard® Support.



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BlackPearl NAS Specifications



BlackPearl NAS Specifications		2U BlackPearl NAS	4U BlackPearl NAS
Master Node	Size	2U	4U
	Capacity	44 TB to 132 TB	48 TB to 560 TB
	Number of Drives	11	12 to 35
Drive Type	Enterprise ¹	4 TB, 8 TB, 12 TB*, 16 TB	
	SSD	1.6 TB	
Expansion Chassis Max Capacity	Enterprise	107 Drives (1,712 TB)	
Max System Capacity	Enterprise	225 drives (3.6 PB)	998 drives (15.97 PB)
Network	Ports and Connectivity	1 Port - 10 Gbase-T (RJ45)	2 Port - 10 Gbase-T (RJ45)
		2 Port - 10 Gbase-T (RJ45)	2 Port - 10 GigE (SFP+)
		2 Port - 10 GigE (SFP+)	2 Port - 40 GigE (QSFP+)
		Network protocols supported: SMB 2, 3; NFS 2, 3	
Protection Level	Enterprise	None / Mirror / Parity (single, double or triple)	

¹ Enterprise = Performance Nearline SAS or SATA * Self-Encrypting 12TB SAS Drives Available



Start small or plan for the future. BlackPearl NAS is the **ONLY** NAS with three levels of field upgradability.

- **Performance upgrade:** Leverage flash-only pools for increased speed
- **Capacity upgrade:** Scale up to 15.97 PB in a single rack
- **Platform upgrade:** Easily TranScale to the BlackPearl Converged Storage System to unlock object storage with policy-based data management, to multiple storage tiers, across multiple locations.



By upgrading BlackPearl NAS to Spectra's **BlackPearl Converged Storage System**, traditional system files (CIFS/NFS) can be passed through BlackPearl Converged Storage System as object storage to additional object storage disk with spin-down capability, digital tape, cloud, a replicated copy to another BlackPearl, or any combination of these storage options. Best of all, it's all done without additional, expensive data mover software or "middleware."

Policy-based copies for multiple tiers, including:

- Enterprise online disk and nearline/archive disk
- Up to 2 Exabytes on tape in a single library
- Automatic ejected tape copies for offsite vaulted storage
- Integrated cloud gateway for DR copy on AWS or Azure
- Automatic bi-directional replication to a remote site for redundancy and data protection

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