



nexttron

A Breakthrough in Affordable Digital Preservation for Enterprise

...as low as 9¢ per Gigabyte*

Verde DPE is a Shingled Magnetic Recording (SMR)-based Network Attached Storage (NAS) disk platform that delivers high density bulk storage. Engineered for data reliability and integrity, Spectra's unique implementation of ZFS software RAID combined with the newest disk technology brings new life to long-term storage – Verde DPE.

Preserve your information with multiple layers of protection at an affordable price – all from a company that you want to do business with.

Verde DPE



Maximum Cost Effectiveness

Verde DPE offers the lowest cost enterprise disk solution without sacrificing reliability. Built around archive grade SMR drives, Verde DPE provides long term data storage at a fraction of the cost of traditional NAS, as low as 9¢/GB.

Unmatched Data Integrity

Multiple layers of protection ensure your data is protected.

- Spectra's ZFS implementation takes advantage of SMR technology for bulk sequential writes
- Triple parity RAID Z3 and rebuild to global spares pushes probability of data loss to 1 in over 2.7 million years when properly monitored and maintained
- Continuous data checksum verifications statistically eliminate bit-rot typical in other hardware RAID systems
- Replication allows snapshot mirroring to a sister-system
- Spectra BlackPearl and S3 interface provide a simple way to send a copy of your data to tape for long-term storage and genetic diversity

All From a Company You Want to do Business with...

EASY TO USE

Verde DPE's simple user interface makes setup and management easy. With the front panel Visual Status Beacon (VSB) LED get real time visual status of the unit for rapid diagnostics and troubleshooting.

EASY TO EXPAND

Highly scalable Verde DPE network attached storage provides simple disk expansion in 200TB increments for up to 7.4PB in a single rack. Using 96 drives within 4U expansion units, a superior density of up to 180TB per rack unit can be achieved in a small footprint.

EASY TO MAINTAIN

Verde DPE provides intelligent rebuilds and built-in global spares to ensure the system is always running smoothly and reliably to preserve your digital assets forever. Simple and straightforward SpectraGuard Support options that you've come to expect from Spectra are available with a Pricelock Guarantee.



Up to 7.4 PB

Verde DPE Purpose Built for:

- Bulk Storage/Archive
- Unstructured Data
- Large Files
- Random Reads
- Bulk Deletes
- Infrequent Changes

Digital Preservation for Enterprise

EU €0.10/GB	*Local currency prices based on current exchange rates and valid until Sept 30 2015
UK £0.07/GB	
AUS \$0.15/GB	
CAN \$0.14/GB	
ROW \$0.11/GB	



Verde DPE Specifications

Hardware



Verde DPE 4U Master Node



Verde DPE 4U Expansion Node

Cost	As low as 9¢/GB for a full 800TB expansion node	
Capacity	Up to 200TB	Up to 800TB in 200TB increments
Maximum System Capacity	7.4 PB Raw (1 Master, 9 Expansion)	
Connectivity	2x10GE optical (40GE optional)	
Power	1280W (R/W), 1000W idle†	775W (R/W), 640W idle
Performance	Up to 1GB/s based on file type and network interface**	
Warranty	1 year extendable to 5 years, optional NBD, and 4 Hour on-site service available depending on location	
Dimensions	Width: 17.2" Height: 4U; 7" Depth: 27.5"	Width: 17.5" Height: 4U; 7" Depth: 40" (including cable mgmt)

**Based on 100MB files † Max chassis supply capacity

Spectra Unleashes the Power of SMR Drive Technology

It took a tape company to leverage the SMR technology to its fullest by using sequential data writes to increase performance, similar to writing to tape. SMR technology enables high-density disk to reach 8TB. Verde DPE's unique approach combines SMR drive technology driven by Spectra's ZFS implementation and software RAID. Compared to traditional disk technology, Verde DPE allows adjacent tracks to partially write over the previous one – much like shingles on a roof, utilizing up to 25% more capacity on the disk drive.

Features

- **SMR** : First to market utilizing this technology for bulk data storage
- **Spectra's ZFS Implementation** : Unleashing the power of ZFS while eliminating the complexity
- **CIFS Interface** : Standard file-sharing protocol
- **NFS Interface** : Enabled with hardware kit
- **Global Spare** : Built in hot spare drives to ensure reliability
- **Intelligent Rebuilds** : ZFS architecture allows rebuilds based only on used capacity
- **Triple Parity** : Statistically eliminates data loss through redundancy and automatic rebuilds when properly monitored and maintained
- **Continuous Data Checksum** : Undetected bit error rate with proactive monitoring statistically eliminates bit-rot
- **Replication** : Built-in asynchronous replication
- **NFI** : Built in portal to tape through Spectra's BlackPearl deep storage gateway
- **Very Wide RAID** : Maximizes system performance

Support When, Where and How You Want It

Support for Spectra Verde DPE is simple and straightforward. The warranty of your Verde DPE includes one year of standard part replacement support. Other options for upgrading your support range from 24x7 phone support, to more advanced alternatives including Next Day, or Four-Hour On-Site service. Our expertise comes from over 30 years of solving real problems with hands-on lab work and on-site technical support. Our support staff is cross-trained over the entire storage environment – not just hardware – so we can assist you with all aspects of a problem. From open to close, we are committed to resolving any issue.

About Spectra Logic Corporation

Spectra Logic develops deep storage solutions that solve the problem of long term storage for business and technology professionals dealing with exponential data growth. Dedicated solely to storage innovation for more than 35 years, Spectra Logic's uncompromising product and customer focus is proven by the largest information users in multiple vertical markets globally. Spectra enables affordable, multi-decade data storage and access by creating new methods of managing information in all forms of deep storage – including archive, backup, cold storage, cloud and private cloud.

