

# ULTRASHARE™ NS Series



NAS/iSCSI/Fibre/SAS Unified Storage Solution



NAS

## High Availability Architecture Design Ensures Data Availability

The UltraShare NAS NS Series offers dual mirrored Linux based embedded OS to guarantee system reliability. Leading the industry with features such as device-to-device data replication, volume encryption, snapshot over NAS/10GbE/iSCSI/Fibre targets, high availability (HA) clustering and multiple backup/restore functions such as USB/Tape backup, remote share (SMB/NFS) backup, file level data duplication, and even comes with a built in UltraShareBackup™ client agent that can be used in the cloud.

## Cost-effective Scale-Up/Out Storage that Keeps Up with Your Business Growth

The UltraShare NAS NS Series is expandable for up to 112x disks and 336TB total raw capacity. Using a hardware based RAID, the UltraShare NAS delivers a robust platform with easy storage expansion and minimal performance degradation while maximizing reliability. Its easy scale-out capability allows the multiple nodes to behave like a single, larger file system, making it easier to manage data growth without having to hire additional IT specialists. As hard drive prices drop overtime and capabilities and capacities increase, the UltraShare NS Series allow enterprises to meet their business growth needs with minimum total cost of investments.

## A Unified Storage Platform That Meets Your Ever Changing Needs

The UltraShare NAS NS Series combines file level storage (SMB/CIFS and NFS) with native block level access options (NAS, 10GbE, iSCSI, Fibre Channel) in one single storage platform to lower data center implementation and management cost without compromising configuration options. It comes with 2U 8-drive (NS2080), 2U 12-drive (NS2120), and 3U 16-drive (NS3160) form factors accommodating 3.5" SAS or SATA drives with hot swap capability to meet your storage application needs. The performance NS Series NAS storage solution delivers high throughput with targets for performance-sensitive applications where the ability to store and retrieve data as quickly as possible is paramount.

## Simple & Secure Storage Management Lowers Total Cost of Ownership

The UltraShare NAS NS Series take advantage of SAN and NAS storage with one interface to simplify storage management and reduce operating cost. It empowers your storage administrator to have full control of multiple UltraShare NS Series storage systems over the network. UltraShare NAS are easy to set up, simply plug the NS Series into the network, and create your permissions and start leveraging your new storage capacity.

## UltraShare™ Advantages

- **Performance**

File and or Block level at over 6X the performance of comparable systems

- **Professional Grade**

Cluster Failover Replication, De-duplication, Real Time Mirroring, Snapshots, Private Cloud, Bare Metal Restore

- **Scalability**

Up to 112 Drives & 336TB!

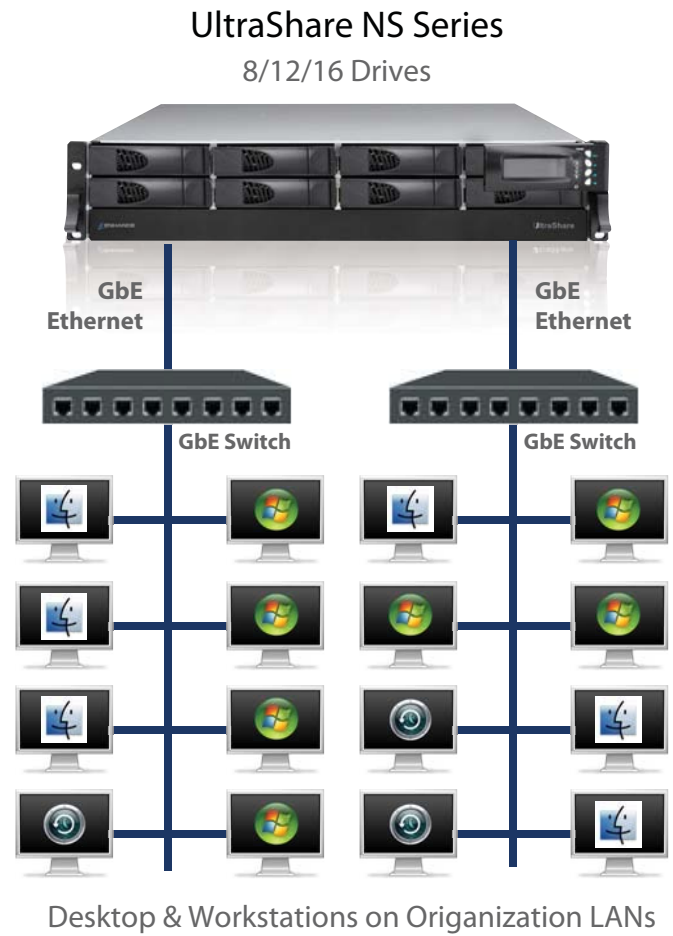
- **Simplicity**

Single pane management for both file and block level, manage multiple systems from 1 interface, dynamic Expansion, FTP & DHCP services

# UltraShare NS Series Configurations

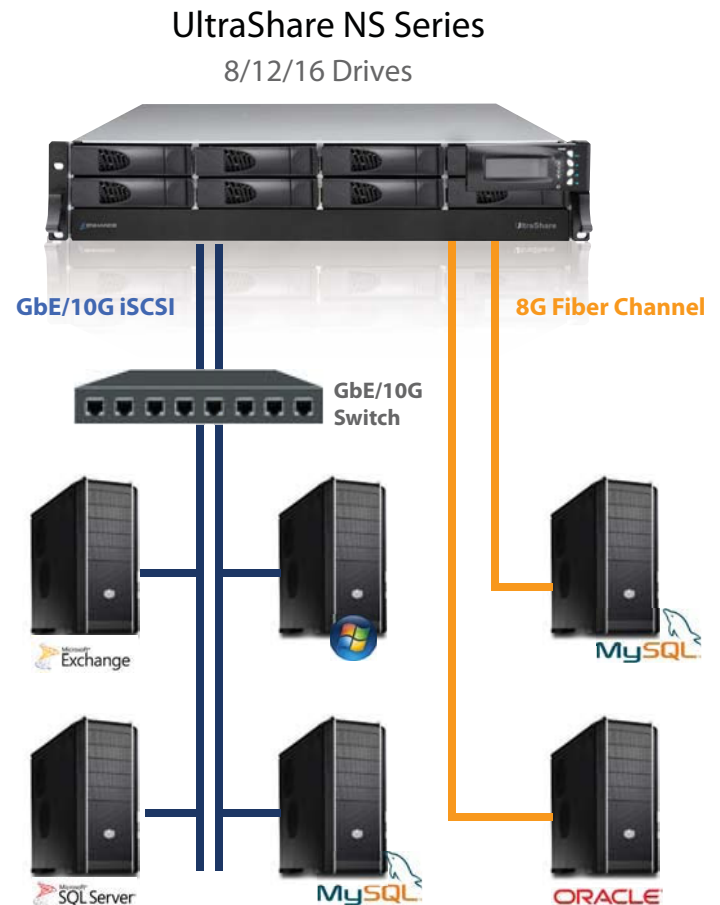
## File Sharing Network Attach Storage

- GbE Ethernet connections to organization LANs
- Files shared between desktops & workstations via SMB/CIFS & NFS



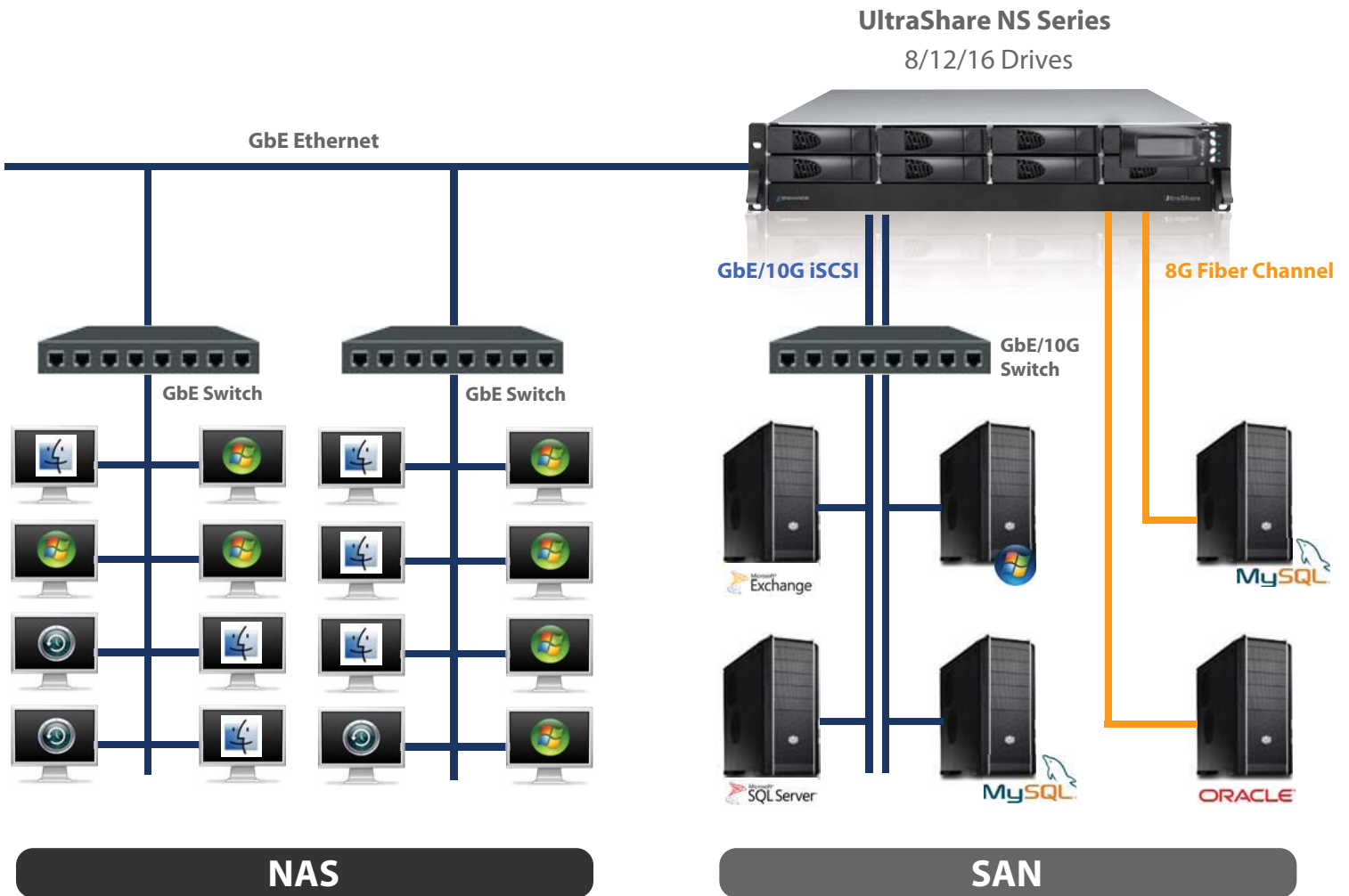
## IP & FC SAN

- GbE/10G Ethernet or 8G Fibre Channel connections to file servers
- Block level access through iSCSI or Fibre Channel for high performance



# File & Block Sharing

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- GbE/10G Ethernet or 8G Fibre Channel connections to file servers
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# UltraShare NS Series Specifications



Models	NS2080	NS2120	NS3160																		
<b>Form Factor</b>	2U 8-Bay	2U 12-Bay	3U 16-Bay																		
<b>Maximum Capacity</b>	24TB	36TB	48TB																		
<b>CPU</b>	Dual Core 3.3G Intel i3-2120	Quad Core 2.0G Intel Xeon	Quad Core 2.0G Intel Xeon																		
<b>Memory</b>	4G DDR3 SDRAM (Up to16G)	4G DDR3 SDRAM (Up to16G)	4G DDR3 SDRAM (Up to16G)																		
<b>Host Interface</b>	3 x GbE NIC with additional interface options: <ul style="list-style-type: none"> <li>• Two or Four GbE iSCSI,</li> <li>• Two 10GbE iSCSI, or</li> <li>• Two 8Gb/s Fibre Channel</li> </ul>	2 x GbE NIC with additional interface options: <ul style="list-style-type: none"> <li>• Two or Four GbE iSCSI,</li> <li>• Two 10GbE iSCSI, or</li> <li>• Two 8Gb/s Fibre Channel</li> </ul>	2 x GbE NIC with additional interface options: <ul style="list-style-type: none"> <li>• Two or Four GbE iSCSI,</li> <li>• Two 10GbE iSCSI, or</li> <li>• Two 8Gb/s Fibre Channel</li> </ul>																		
<b>PCI-E Expansion</b>	<ul style="list-style-type: none"> <li>• 2 x PCI-E 2.0 x8 slots</li> <li>• 1 x PCI-E 2.0 x8 slots (w/ x4 link)</li> </ul>	<ul style="list-style-type: none"> <li>• 2 x PCI-E 2.0 x8 slots</li> <li>• 1 x PCI-E 2.0 x16 slots</li> </ul>	<ul style="list-style-type: none"> <li>• 2 x PCI-E 2.0 x8 slots</li> <li>• 1 x PCI-E 2.0 x16 slots</li> </ul>																		
<b>HDD Supported</b>	<ul style="list-style-type: none"> <li>• 3.5-in 6Gb/s SAS 15K RPM: 300G/450G/600G</li> <li>• 3.5-in 6Gb/S SAS 7.2K RPM: 1TB/2TB/3TB</li> <li>• 3.5-in 6Gb/s SATA 7.2K RPM: 1TB/2TB/3TB</li> </ul>																				
<b>RAID</b>	Hardware-Based 6G RAID Controller 0,1,10(1E),3,5,6,30,50,60,JBOD Online RAID Level Migration Online RAID Expansion Array Roaming Auto RAID Rebuild Global/Dedicate Hot Spare Multiple Volume Group Online Logic Volume Expansion AE256 Bits Volume Encryption																				
<b>Storage Expansion</b>	One 6Gb/s SAS JBOD expansion port Up to 112 SAS/SATA physical disks expansion USB/eSATA/Ethernet Storage Expansion																				
<b>NAS OS</b>	Linux 64-bit NAS OS Dual SATA DOM (Mirroring)																				
<b>Network Client Supported</b>	Windows, Unix/Linux, Macintosh, iOS, Android																				
<b>Protocol Supported</b>	TCP/IP, DHCP, SMB/CIFS, NFS, SNMP, FTP, SFTP, HTTP Telnet, SSH, AFP																				
<b>File System Support</b>	XFS, EXT3, EXT4																				
<b>NAS Backup</b>	NAS Data Backup/Restore Support NAS Data Backup to USB/Tape NAS Data Backup to Remote Share UltraShareBackup Client Agent Symantec BackupExec Agent (optional)																				
<b>Advanced Features</b>	<table border="0"> <tr> <td>File Level Duplication</td> <td>HA Software (30 days trial)</td> </tr> <tr> <td>Replication</td> <td>Snapshots</td> </tr> <tr> <td>CDP Server</td> <td>CDP Client (30 days trial)</td> </tr> <tr> <td>File Level Rsync</td> <td>WORM</td> </tr> <tr> <td>SMB Recycle Bin</td> <td>SMB File Audit</td> </tr> <tr> <td>HTTP/HTTPS WebDAV</td> <td>DHCP Server</td> </tr> <tr> <td>FTP Server</td> <td>Windows ADS (Multiple Domains)</td> </tr> <tr> <td>Open LDAP</td> <td>Linux NIS</td> </tr> <tr> <td colspan="2">Windows/Mac Discover Utility</td> </tr> </table>			File Level Duplication	HA Software (30 days trial)	Replication	Snapshots	CDP Server	CDP Client (30 days trial)	File Level Rsync	WORM	SMB Recycle Bin	SMB File Audit	HTTP/HTTPS WebDAV	DHCP Server	FTP Server	Windows ADS (Multiple Domains)	Open LDAP	Linux NIS	Windows/Mac Discover Utility	
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<b>Block Level Access</b>	iSCSI Target                      iSCSI Host Initiator IP Filter FC Target                            iSCSI/FC Target Volume Migration																				
<b>Management</b>	HTTP/HTTPS WebGUI Resources SNMP/MRTG Support Hardware Alarm e-mail Notification																				
<b>Power Supply</b>	Dual Redundant 460W 80plus with PFC UPS Supported																				
<b>Dimension &amp; Weight</b>	System Dimension (HxWxD) Package Dimension (HxWxD) System Weight (Lbs) Package Weight (Lbs)																				



## Package Content

- NS series NAS storage with UltraShare 64-bit Linux based OS and pre-configured drive pack(s)
- Ethernet cables
- Rack rail mounting kit
- Power cords
- Quick Install Guide
- Warranty & Service Certificate Standments
- Installation User Manual CD

## UltraShare NS Series Ordering Information

Category	Part No.	Description
NS System	NS2080	2U 8-Bay NAS system
	NS2180	2U 12-Bay NAS system
	NS3160	3U 16-Bay NAS system
Drive Packs	NS-HDP-4T	4x1TB 6Gb/s SATA III HDDs
	NS-HDP-8T	4x2TB 6Gb/s SATA III HDDs
	NS-HDP-12T	4x3TB 6Gb/s SATA III HDDs
	NS-HDP-4TS	4x1TB 6Gb/s SAS HDDs
	NS-HDP-8TS	4x2TB 6Gb/s SAS HDDs
	NS-HDP-12TS	4x3TB 6Gb/s SAS HDDs
	NS-HDP-1.2TS	4x300GB 6Gb/s SAS HDDs
	NS-HDP-1.8TS	4x450GB 6Gb/s SAS HDDs
	NS-HDP-2.4TS	4x600GB 6Gb/s SAS HDDs

*Note: UltraShare NS System is required to have minimum of one Drive Pack to purchase*



## UltraShare NS Series Optional Items

Category	Part No.	Description
Services	NS-ARP-2	2 Year ARP Service Extension within 30 Days of New System Purchased
	NS-ARP-2-AP	2 Year ARP Service Extension within 30 Days of New System Purchased
	NS-E2YW	2 Years Depot Warranty Extension at New System Purchase
	NS-E2YW-AP	2 Years Depot Warranty Extension at New System Purchase
Upgrade Kits	NS-DNIC	One (1) Dual Port NIC Upgrade
	NS-QNIC	One (1) Quad Port NIC Upgrade
	NS-DFC	One (1) Dual Port 8G Fibre Channel Upgrade
	NS-STGX	One (1) Single Port 10G iSCSI (CX4) Upgrade
	NS-USB3	One (1) USB3.0 HBA Upgrade
	NS-MES2G/2	Two (2) 2G Memory Upgrade for NS2080
	NS-MES4G	One (1) 4G Memory Upgrade for NS2120 and NS3160
	NS-HA	One (1) HA License
	NS-CDP	One (1) CDP License



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*Where Storage Begins*