



Highlights

Hyperconverged & Scalability

- Consolidate datacenter resources with virtualization and software-defined Storage
- SAN and/or Scale-Out NAS with more nodes as business growth demands more storage

Enterprise & Storage Features

- SAN (iSCSI) & Scale-Out NAS (CIFS/SMB, NFS protocol)
- Single Namespace Distributed File System over multi-nodes
- Patented Advanced Storage Virtualization
- Volume Access Control
- Dynamic Volume Management
- Advanced Reporting Management
- Snapshots (Delta-based and Mountable NAS - Read-Only, SAN – Read/Write)
- Quota (Volume and Directory)
- Asynchronous Replication (One-to-Many & Many-to-One)
- Multi-Site/Multi-Appliance Replication
- Real-Time Synchronous Mirroring of Volumes and Nodes (Campus Mirroring)
- Hardware-Enabled Block Level Encryption (AES 256) In-Transit or At-Rest
- Tiered Storage Support
- Data Deduplication with High Performance Index Engine (SAN)
- Thin Provisioning with Space Reclamation (SAN)
- SSD Caching (SAN)

Power & Cooling

- Redundant Hot-Swappable
- 80 PLUS Platinum
- 94% to 96% Efficiency

Hyperconverged Appliance

All-in-one infrastructure solution consolidates management of servers, storage and network resources into a single appliance for on-demand resource allocation (CPU, memory, storage, etc.) based on application need. The integrated storage controller software running in hypervisor enables storage virtualization for seamless expansion and reduced administrative burden.

Streamline Business Growth

Hyperconverged infrastructure eliminates barriers so the administrator can change and deploy resources quickly as business demands increase. Deployment, scaling and management of resources for applications usage and need are streamlined using intelligent solutions provided by VMWare vSphere, integrated with the software-defined virtual storage controller software.

Software-defined Enterprise Storage

Virtualized and Storage-defined software is the key element in advanced storage functionality such as storage provisioning, storage network (SAN and/or Scale-Out NAS), Data Protection, Encryption, Disaster Recovery, Management and other capabilities that are designed and built for Enterprise level deployment.

Resources Consolidation

Administering, changing and deploying resources for applications rapidly, with ease, require centralized management capable of virtualization of hardware resources within the cluster. Data distribution of storage across nodes (in cluster), server virtualization, and networking services are managed for all applications that run as virtual machine on each node independently.

Hyperconverged Simplified

Collaboration between Virtualized Software-defined storage and VMWare vSphere simplifies end-to-end management of data-center infrastructure in rapid provisioning of servers and storage via virtualization. Enhanced business efficiency, ease of overall operation, and simultaneously decreases both CapEx and OpEx cost that optimally consolidates resources.



Models & Scaling			
	2U12	3U16	4U24
Platform & Base Models			
	SSO-1204P (12 HDD) SSO-1024P (10 HDD + 2 SSD)	SSO-1604P (16 HDD) SSO-1424P (14 HDD + 2 SSD)	SSO-2404P (24 HDD) SSO-2224P (22 HDD+ 2 SSD)
Drives Selection	HDD: 2TB, 4TB, 6TB, 8TB, 10TB 7200RPM 12G SAS SSD: 960GB 12Gb SAS (SSO-1024P / 1424P / 2224P Models Only)		
Capacity Expansion	Scale-Out: Expand Across an Unlimited of Nodes (NAS) Scale-Up per Node: Promise VTrak J5000 Series Expansion Storage subsystem		
Operational/Data Services			
Enterprise Features	• SAN with RAID support • Scale-Out NAS – Single Namespace • Port Teaming and Failover • Metadata-less to scale capacity and performance • Active Directory integration ready • SNMP Traps/UPS/Nagios/Call Home • Advanced Reporting Management • Data Encryption – In-transit or At-Rest • Data Deduplication (SAN) (optional memory and license) • SSD Caching (SAN)		
Advanced Storage Features	• Advanced Storage Virtualization • Volume/Storage Expansion • Snapshots (delta-based) • Mountable Read-Only Snapshot Volumes • Dynamic Volume Management • Asynchronous Replication (One-to-Many & Many-to-One) • Thin Provisioning (SAN) • Tiered Storage (SAN) • Real-Time Synchronous Mirroring (Campus Mirroring)		
Host Connectivity			
Protocol	SAN: iSCSI NAS: CIFS/SMB and NFS		
Connectivity	2 ports 10G Ethernet RJ45 or 2 ports 10G Ethernet SFP+		
Management Ports	1 port RJ45 1Gb Dedicated for IPMI		
Processing Engine			
Processor	Dual Sockets 8-Cores Skylake SP-4110 2.0GHz Silver Xeon Processor (Default) Optional 10, 14, 16, 20, 24 and 28-Cores (specify when ordering)		
Memory	64GB per Node (Default) - Optional 128GB, 256GB, 512GB, 1TB or 1.5TB (specify when ordering) Optional Data Deduplication feature requires 1GB additional memory per 1TB storage capacity		
Data Protection & Layout			
Protection	SAN: RAID levels 0,1, 5, 6, 10, 50, 60 with Cache Battery backup NAS: Erasure Coding or Replica		
Distribution Options	• Distributed • Distributed Mirrored • Mirrored • Striped • Distributed Striped • Dispersed Volumes		
Ecosystem			
VM Compatibility	StoneFly SCVM™, N-Block NAS, Windows Desktop, Servers, Storage Servers, Linux, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, Ubuntu		
Hypervisor			
Embedded	VMWare vSphere Standard, vSphere Enterprise Plus, Essential Kit, Essential Plus Kit, vCenter Server Standard, vCenter Server Foundation (specify when ordering)		
Power/Environmental			
Power Supply	920W Redundant Hot-Swappable Voltage:1 00-240 Vac 50-60Hz Current: +12V 75A Max	1000W Redundant Hot-Swappable Voltage: 100-240 Vac 50-60Hz Current: +12V 83A Max	1200W Redundant Hot-Swappable Voltage: 100-240 Vac 50-60Hz Current: +12V 100A Max
Power Efficiency	80-Plus Platinum - 94% efficiency (920W), 96% efficiency (1000W/1200W)		
Temperature Range	Operational: 5° to 35°C, Non-Operational: -40° to 70°C		
Relative Humidity	Operational: 8% to 90% (Non-Condensing), Non-Operational: 5% to 95% (Non-Condensing)		
Regulatory/Safety	EMC Class A: CE, FCC, VCCI, BSMI, RCM Safety: CB, UL/cUL Environmental: RoHS2		
Warranty & Support			
Warranty	1-year full system limited warranty including Advanced Parts Replacement Optional Extended Warranty available up to 5-Years with Depot, NBD On-Site, & 4-Hour On-Site		
Support	24/7 e-mail and phone support		