



The Original Innovator
of the iSCSI Protocol



StoneFly BG365

Solution Brief



Built-in block, file, &
object storage support



Cloud Connect to
Azure, AWS, or
StoneFly Cloud



Powered by
StoneFly SCVM

High Performance Backup Gateway Appliance

Affordable backup gateway solution with backup software, StoneFly storage operating system, industry standard virtualization technology and support for NAS and SAN storage appliance integration.



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About StoneFly, Inc.

The Beginning

StoneFly's journey started with the creation of the iSCSI storage protocol and the registration of the domain name "iscsi.com" in March 1996. Headquartered in Silicon Valley (Hayward, California), StoneFly was among the first to manufacture and ship iSCSI storage appliances in 2002. Ever since then, StoneFly has contributed in making the iSCSI protocol into the globally standard storage protocol used by industry professionals across the globe.

Our Vision

StoneFly was founded with the singular vision of delivering simple and affordable enterprise-class data management solutions to SMBs, SMEs, and large organizations worldwide.

Diverse Range of Enterprise Products – Physical Servers & Cloud-Based Solutions

This vision has guided innovation at every step of the way and enabled StoneFly to introduce several enterprise-grade storage solutions such as NAS, SAN, Unified (NAS, SAN and Object), and Hyperconverged Infrastructure (HCI). StoneFly also stepped into the backup and disaster recovery market with purpose-built unified server and storage hyperconverged backup solutions capable of delivering reduced RTPOs for enterprise workloads.

With more than two decades in the industry, StoneFly has now built a wide range of enterprise products and solutions that extend beyond physical solutions and also include serverless and cloud-based offerings. Our strategic technology partnerships with Veeam, Microsoft Azure, Amazon AWS, and other industry leaders has enabled us to offer cloud storage, cloud backup, cloud storage gateways, and data migration solutions to our customers worldwide.

Our Patents

All StoneFly physical and virtual data management solutions are protected by StoneFly storage virtualization patents as certified by the United States Patent and Trademark Office (Patent#: 7302500, 7555586, 7558885, 8069292).

Our Memberships

StoneFly is a member of the Storage Networking Industry Association (SNIA) and the founding member of the IP Storage Institute (IPSI).

Our Partnerships

StoneFly has longstanding partnerships with industry giants such as Veeam, Microsoft, Amazon, VMware, and several others.

A brief list of StoneFly partnerships is as follows:

Veeam

- Veeam Technology Alliance Partner
- Veeam Cloud Service Provider (CSP)



Microsoft

- Certified Microsoft Azure Marketplace Partner
- Microsoft Cloud Solution Provider (CSP) Partner
- Microsoft Government Cloud Service Provider Partner



VMware

- VMware TAP Advanced Partner
- VMware Professional Solution Provider



Amazon

- Amazon AWS Technology Partner



Chapter 1:

Backup & DR Hardware Overview

StoneFly backup & DR appliances support a number of hardware architectures facilitating a variety of enterprise and SMB use-cases. In this chapter, we take a closer look at these hardware architectures, the different key components within the hardware, supported storage drives, and the maximum storage capacities of available storage appliances.

1.1 Available Backup & DR Hardware Architectures

StoneFly backup & DR appliances support the following hardware architectures:

- 1.1.1 [Single-Node Appliance](#)
- 1.1.2 [Disaggregated System \(High-Availability\)](#)

1.1.1 Single-Node Appliance

The single-node appliance hardware architecture delivers a cost-effective backup & DR gateway experience. This hardware architecture contains a single chassis with high performance flash drives where the storage OS, hypervisor and backup software are hosted. This single-node gateway appliance is then connected to the customer's existing NAS or SAN storage equipment to convert it into a high-performance backup and disaster recovery solution.

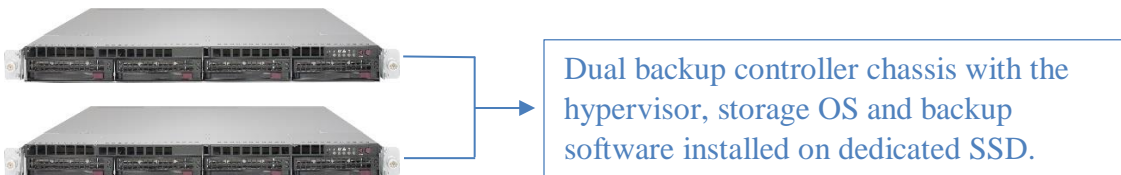


1.1.2 Disaggregated Backup & DR Systems (High-Availability)

The disaggregated backup & DR system is a high-availability modular hardware architecture built to deliver fault-tolerance, remove single point-of-failure, and simplify scalability for enterprise-level workloads.

StoneFly disaggregated backup & DR systems are comprised of three or more hardware chassis:

- Two BG365 Appliances (1U or 2U Chassis)



With hardware independent backup controllers, the disaggregated backup & DR systems prevent downtime due to backup controller failure. Moreover, the dual backup controllers prevent

bottlenecks by delivering multi-path access to the storage hardware chassis (HA RAID array) with the optional multipath upgrade option.

Due to the fact that the backup controllers are in separate hardware chassis, the process of repairing them is simpler and budget-friendly. Disaggregated storage solution users can replace the malfunctioned backup controller chassis while the secondary / redundant controller continues to facilitate access.

Even in the event of a backup controller hardware failure, the appliance continues to operate without experiencing downtime. This disaggregated high-availability hardware architecture is thus best fit for enterprises and data centers that cannot tolerate downtime, while providing easy data center management.

1.2 Network Ports

StoneFly XS-Series and XD-Series appliances come standard with at least two 10Gb ports per node. The standard network ports vary depending on the appliance series and model.

Following is a list of the supported network ports and available network port upgrade options for XS-Series and XD-Series single-node appliances:

1.2.1 Network Ports for StoneFly XS/XD-Series Single-Node Appliances

- Dual 1Gb Copper Ethernet Ports
- Quad 1Gb Copper Ethernet Ports
- Dual 10Gb RJ-45 Copper Ethernet Ports
- Quad 10Gb RJ-45 Copper Ethernet Ports
- Dual 10Gb SR Optical Ethernet Ports with 10Gb SFP+ SR Optical Transceiver Modules
- Single 10Gb LR Optical Ethernet Port with 10Gb SFP+ LR Optical Transceiver Module
- Dual 10Gb SFP+ Ports (Cables/Transceiver Modules Not Included)
- Quad 10Gb SFP+ Ports (Cables/Transceiver Modules Not Included)
- Dual 40Gb QSFP+ Ports (Cables/Transceiver Modules Not Included)

1.2.2 Network Ports for StoneFly XS/XD-Series Disaggregated (HA) Cluster Systems

Quad 1Gb Copper Ethernet Ports for HA Cluster	2 per Node
Eight 1Gb Copper Ethernet Ports for HA Cluster	4 per Node
Quad 10Gb RJ-45 Copper Ethernet Ports for HA Cluster	2 per Node
Eight 10Gb RJ-45 Copper Ethernet Ports for HA Cluster	4 per Node
Quad 10Gb CX4 Copper Ethernet Ports for HA Cluster	2 per Node
Quad 10Gb SR Optical Ethernet Ports with 10Gb SFP+ SR Optical Transceiver Modules for HA Cluster	2 per Node
Dual 10Gb LR Optical Ethernet Ports with 10Gb SFP+	1 per Node

LR Optical Transceiver Modules for HA Cluster	
Quad 10Gb SFP+ Ports for HA Cluster	2 per Node
Eight 10Gb SFP+ Ports for HA Cluster	4 per Node
Quad 40Gb QSFP+ Ports for HA Cluster	2 per Node

Note: Available network port upgrades vary depending on the appliance series and available PCI-E slots in the appliance. For more information, [contact StoneFly pre-sales engineers](#).

1.3 Processor, System Memory & SSD for OS

This section lists the available processors, system memory and SSD options for the OS.

Note: Standard and compatible hardware components may vary depending on the appliance series and model. Please refer to the **Hardware Specifications** of the relevant backup & DR solution or [contact StoneFly pre-sales engineers](#) for more information.

1.3.1 Processor Options

Processor Options for Single-Node & Disaggregated HA Appliances (Per Node)

	XS-Series	XD-Series
Standard	10-Core Xeon Processor	Dual 10-Core Xeon Processors
Upgrade Options	<ul style="list-style-type: none"> • 8-Core Xeon Processor • 12-Core Xeon Processor • 16-Core Xeon Processor • 18-Core Xeon Processor • 20-Core Xeon Processor • 24-Core Xeon Processor • 28-Core Xeon Processor 	<ul style="list-style-type: none"> • Dual 8-Core Xeon Processors • Dual 12-Core Xeon Processors • Dual 16-Core Xeon Processors • Dual 18-Core Xeon Processors • Dual 20-Core Xeon Processors • Dual 24-Core Xeon Processors • Dual 28-Core Xeon Processors

1.3.2 System Memory Options

System Memory Options for Single-Node Appliances

	XS-Series	XD-Series
Standard	32GB	64GB
Upgrade Options	<ul style="list-style-type: none"> • 64GB • 128GB • 256GB • 384GB • 512GB • 1TB 	<ul style="list-style-type: none"> • 128GB • 256GB • 384GB • 512GB • 768GB • 1TB • 2TB

System Memory Options for Disaggregated HA Appliances (Per Node)

	XS-Series	XD-Series
Standard	32GB	64GB
Upgrade Options	<ul style="list-style-type: none"> • 64GB • 128GB • 256GB • 384GB • 512GB • 768GB • 1TB (2U only) 	<ul style="list-style-type: none"> • 128GB • 256GB • 384GB • 512GB • 768GB • 1TB • 2TB • 3TB (1U only)

1.3.3 SSD for OS

StoneFly backup & DR appliances use SSD or Flash for the backup controller and OS. This section describes in detail the standard and available upgrade options for the SSD dedicated for the OS.

NVMe SSD for OS Options – Single-Node Appliances

	XS-Series	XD-Series
Standard	256GB PCI-E Based NVMe SSD for Hypervisor/OS	
Upgrade Options	<ul style="list-style-type: none"> • 512GB PCI-E Based NVMe SSD for Hypervisor/OS • 1TB PCI-E Based NVMe SSD for Hypervisor/OS • 2TB PCI-E Based NVMe SSD for Hypervisor/OS • 3.8TB PCI-E Based NVMe SSD for Hypervisor/OS 	

NVMe SSD for OS Options - High-Availability (HA) Appliances (Per Node)

	XS-Series, Dual 2U XD-Series	Dual 1U XD-Series
Standard	256GB NVMe SSD for Hypervisor/OS	240GB SSD for Hypervisor/OS
Upgrade Options	<ul style="list-style-type: none">• 512GB NVMe SSD for Hypervisor/OS• 1TB NVMe SSD for Hypervisor/OS• 2TB NVMe SSD for Hypervisor/OS• 3.8TB NVMe SSD for Hypervisor/OS	<ul style="list-style-type: none">• 480GB SSD for Hypervisor/OS• 960GB SSD for Hypervisor/OS• 1.9TB SSD for Hypervisor/OS• 3.8TB SSD for Hypervisor/OS

Chapter 2:

StoneFly Storage Concentrator Virtual Machine (SCVM)

StoneFly SCVM is an 8th generation patented storage operating system that is included in all StoneFly backup and DR solutions. In this chapter, we'll take a closer at SCVM and describe what it is, how it works and what features it offers to simplify and improve your backup & DR experience.

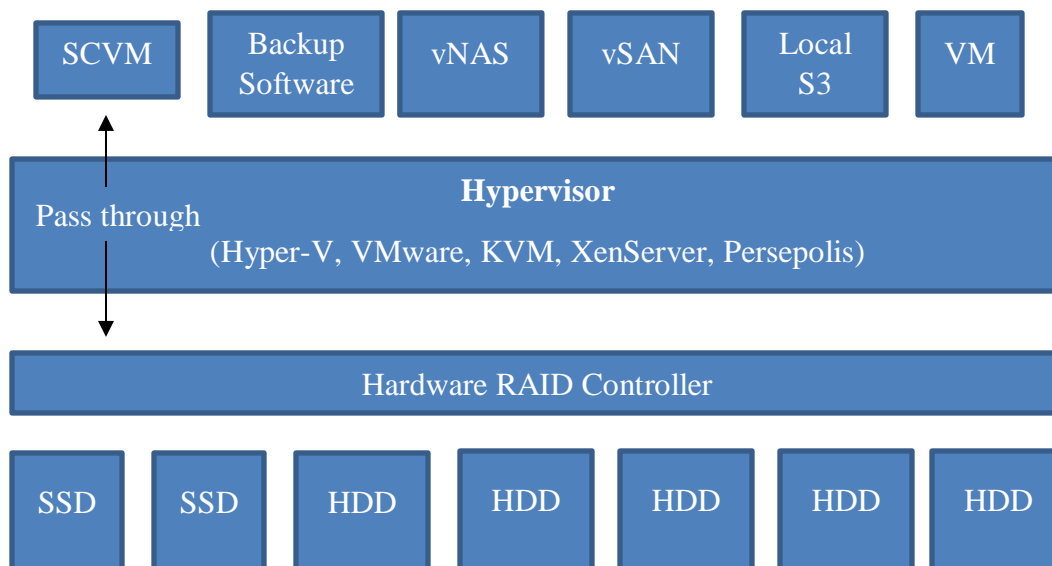
2.1 What is SCVM?

StoneFly SCVM is a storage operating system that enables users to provision NAS, SAN, & object storage on their backup & DR appliance. Besides storage virtualization and provisioning, SCVM also comes with an array of data protection and data storage optimization features that are poised to deliver great value-for-the-money experience.

SCVM also enables users to integrate cloud storage repositories (Microsoft Azure, AWS, StoneFly cloud, any other S3 compatible cloud) with their backup & DR infrastructure; giving users access to highly scalable and affordable target repositories for backup data storage, retention and archiving.

2.1.1 SCVM Deployment

Note: SCVM is standard on all StoneFly backup & DR appliances. StoneFly customers do not have to install the Virtual Machine (VM) on our backup & DR solutions. Users only need to configure the management network for the VM.



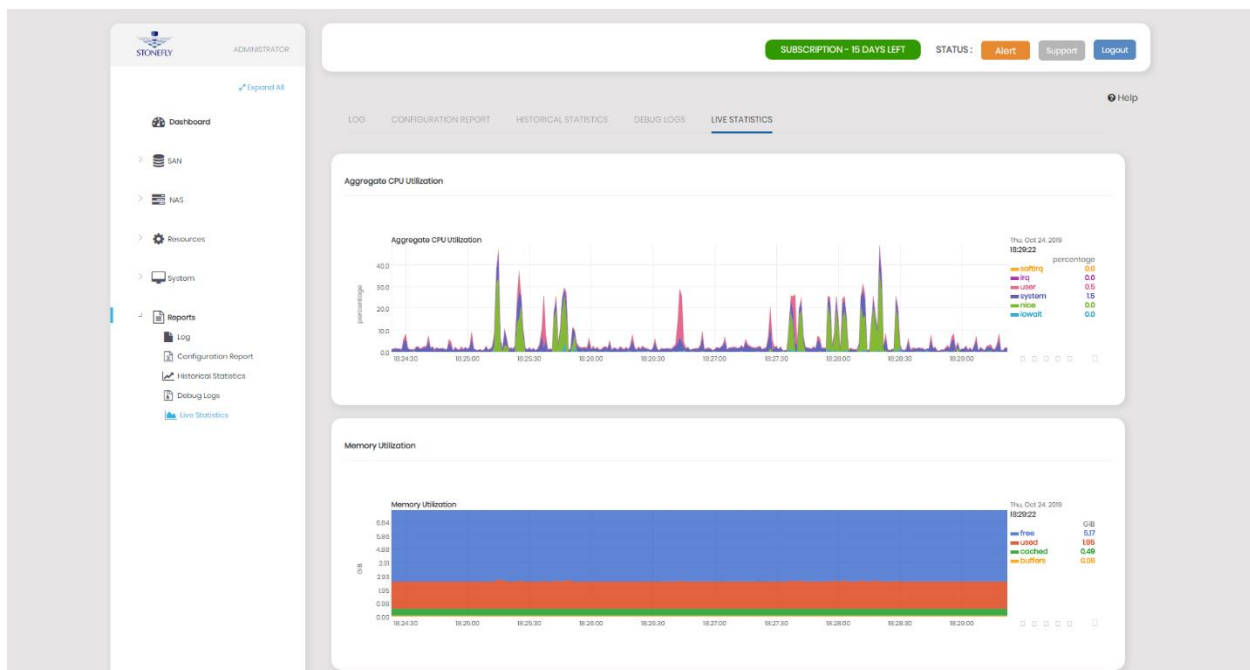
SCVM is deployed as a VM on industry standard hypervisors such as Hyper-V, VMware, KVM, XenServer (Citrix), or StoneFly Persepolis.

Note: Hypervisor availability may vary depending on the StoneFly product series selected.

The storage OS comes with an easy-to-use management GUI that enables users to provision desired resources on the backup & DR appliance. This makes StoneFly backup & DR solutions the complete package containing the backup software, target repository, and software-defined networking.

The SCVM passes through the hypervisor or virtualization environment interacting directly with the RAID controller and gives users the ability to fully utilize their backup & DR appliances. These capabilities truly enhance the user experience and improve the ROI and TCO of the infrastructure.

2.1.2 SCVM Dashboard – Real-time Graphical Performance Reporting



StoneFly SCVM Dashboard

SCVM truly puts users in control of their infrastructure with real-time graphical reporting about metrics such as:

- Aggregated CPU Utilization
- System Memory Utilization
- Aggregate Disk Read/Write Activity
- Aggregate Network Usage

2.2 Enterprise-Grade Features of StoneFly SCVM

StoneFly SCVM is equipped with state-of-the-art features that facilitate data protection and effective storage utilization. Here is a brief list of those features:

2.2.1 Data Protection Features of SCVM

- Detachable Air-Gapped NAS volume provisioning that can be “turned off” or “turned on” (spin up) at user’s discretion
- Backup Vault – Isolated Linux-based virtual appliance
- Immutable delta-based, read-only & mountable snapshots
- Built-in anti-virus & anti-ransomware for NAS volumes
- Threat scan & detection for backup data
- WORM (Write-Once Read-Many) Storage Provisioning
- NAS Erasure Coding
- Advanced AES 256-bit encryption

2.2.2 Storage Optimization Features of SCVM

- Thin Provisioning – quick storage provisioning with space reclamation
- Deduplication – reduced storage space consumption & efficient storage capacity usage
- Flash Cache™ - SSD Caching
- Cloud Connect – with support for Azure blob, AWS S3, StoneFly private cloud & other S3 compatible clouds

2.3 SCVM Resources

To learn more about SCVM, visit the StoneFly website: <https://stonefly.com/hyper-converged/scvm-virtual-storage-appliance>

To view SCVM demo videos or how-to videos, please refer to the **Technical Videos** section on the StoneFly website: <https://stonefly.com/resources/technical-videos>

StoneFly SCVM is also available as a standalone VM. To purchase SCVM licenses or to start a free trial go to: <https://stonefly.com/subscription>

For more details, please [contact StoneFly sales](#).

Chapter 3:

BG365 Backup Gateway Appliance

In this chapter, we'll describe our on-premises backup & DR solutions, the available models and the hardware specifications of different appliance series and models.

3.1 Backup Gateway Appliances

For data center owners and large organizations with unused storage infrastructure, StoneFly offers the BG365 backup and DR gateway appliance. The BG365 gateway supports a number of mainstream backup software and leverages existing iSCSI target storage resources to build a cost-effective backup & DR solution.

Equipped with StoneFly's patented storage OS, the BG365 gateway appliances optimize the user's backup & DR experience and ensures maximum utilization of available storage infrastructure.

Available BG365 Gateway Appliances

- BG365V™ - Backup & DR Gateway Appliance with Veeam
- BG365C™ - Backup & DR Gateway Appliance with Commvault
- BG365A™ - Backup & DR Gateway Appliance with Acronis
- BG365U™ - Universal Backup & DR Gateway Appliance

Available BG365 Hardware Architectures

- Single-Node Gateway Appliances: XS-Series & XD-Series
- Disaggregated HA Gateway Appliances (BG365-HA): XS-Series & XD-Series

What can BG365 Gateway Appliances backup?

BG365 gateway appliances support different backup software giving them different backup & DR capabilities depending on the installed backup software.

Generally, the BG365 gateway appliances can be configured to back up physical servers and Virtual Machines, NAS volumes (unstructured file-level data such as files, videos, images, etc.) and SAN volumes (structured block-level data such as databases).

Built-in Cloud Connect

All BG365 appliances come preconfigured with SCVM. SCVM enables users to integrate public cloud storage repositories, such as Microsoft Azure, Amazon AWS, any other S3 compatible cloud, or StoneFly's private cloud with their existing backup infrastructure.

Set up data redundancy, data protection strategies such as the 3-2-1 rule, or simply expand the storage capacities of the BG365 appliances by leveraging this built-in feature.

To learn more about StoneFly BG365 backup gateway appliances, visit StoneFly website:

<https://stonefly.com/backup-gateway>

Enterprise-Grade Features of the BG365 Gateway Appliances

All StoneFly BG365 appliances come preconfigured with our patented storage OS enabling our customers to leverage the enterprise-grade features of the virtual storage appliance.

Following is a brief list of standard and advanced features of StoneFly SCVM:

Standard Features:

- Logical Volume Creation and Patented Advanced Storage Virtualization Services
- 200 iSCSI Volumes Supported with 1022 Concurrent Host iSCSI Sessions
- iSCSI Port Teaming, Failover and Load-Balancing
- Volume-Level Access Control and Dynamic Volume Management
- Support for iSCSI, SNMP Traps, UPS, Nagios, RAID Monitoring, Call Home, VMware VAAI
- Real-Time Graphical Performance Monitoring with Tracking, Monitoring & Utilization Reporting
- Automated Online Volume / Storage Expansion
- Supports up to 200 iSCSI Hosts

Advanced Features:

- StoneFly Snapshot Services with 2520 Delta-Based Snapshots per Subsystem
- Mountable Read-Write Snapshot Volumes
- Snapshot Schedule Utility, Command Line Interface Utility
- StoneFly Real-Time Synchronous Mirroring of iSCSI Volumes and Nodes (Campus Mirroring)
- Multi-Site/Multi-Appliance Replication and Unified Central Management System
- Tiered Storage Architecture with Hardware and Software Support
- Thin Provisioning with Space Reclamation
- Available Upgrade Options (Not Included Standard): Asynchronous Replication (One-to-Many & Many-to-One), Hardware-Enabled Volume Encryption, Fibre Channel SAN Target Bundle, NAS (Support for CIFS/SMB and NFS Protocols), Block-Level Data Deduplication, Flash Cache SSD Caching, VSS Support

Additional Features with Optional NAS Volumes Upgrade:

- Support for NAS Volumes (CIFS/SMB & NFS Protocols) and Unlimited NAS Clients
- StoneFly Snapshot Services with 945 Delta-Based Snapshots per Subsystem of NAS Volumes Creating Read-Only Snapshot Volumes
- Scale Out NAS using a Single Name Space to Scale Capacity & Performance
- StoneFly Synchronous Replication of NAS Volumes (Failover Cluster Only)
- NAS Segment AES256 Data Encryption
- WORM (Write-Once, Read-Many) Compliant Policy-Based NAS Storage Support Protects Data from Deletion, Modification, Viruses & Ransomware
- Built-In Virus, Malware and Ransomware Detection and Removal for NAS Volumes
- NAS Tiering, Tiered Storage Architecture with Hardware and Software Support

For more information about StoneFly SCVM, please refer to [Chapter 2](#).

Hardware Specification - StoneFly BG365 Single-Node Appliance Models: XS-Series

	1U Rackmount	2U Rackmount
Hypervisor	VMware vSphere, Microsoft Hyper-V, Citrix, KVM, StoneFly Persepolis	
Processor	10-Core Xeon Processor (Standard) / 8, 12, 16, 18, 20, 24 or 28-Core Xeon Processor (Optional)	
System Memory	32GB (Standard) / Up to 768GB (Optional)	32GB (Standard) / Up to 1TB (Optional)
NVMe SSD for OS	256GB NVMe SSD for OS / Up to 3.8TB NVMe SSD for OS (Optional)	
Network Ports	Two Bonded 10Gb RJ-45 Ethernet Connections (Backwards Compatible with 1Gb)	
Available Slots	Up to 2 PCI-E Slots Can Be Used For Optional Network Card, FC SAN Target or SAS/FC Storage Expansion Kits to Easily Convert Your Existing Storage Appliances into Advanced iSCSI Storage	Up to 4 PCI-E Slots Can Be Used For Optional Network Card, FC SAN Target or SAS/FC Storage Expansion Kits to Easily Convert Your Existing Storage Appliances into Advanced iSCSI Storage
Interface Options	Optional Support for 1Gb RJ-45, 10Gb RJ-45, SFP+, CX4, SR Optical, LR Optical, 40Gb QSFP+, 12Gb SAS, 16Gb FC	
Management	Gigabit Management Port and Intelligent Platform Management Interface (IPMI) with KVM-Over-LAN	
Power Supplies	Redundant 80-PLUS Platinum Hot-Swappable PS	Redundant 80-PLUS Titanium Hot-Swappable PS
Power Output/Input	500W (100-240Vac)	800W (100-127Vac) / 1000W (200-240Vac)
Form Factor	1U Rackmount	2U Rackmount
Dimensions (H x W x D)	1.7" x 17.2" x 25.6"	3.5" x 17.2" x 25.5"

Hardware Specification - StoneFly BG365 Single-Node Appliance Models: XD-Series

	1U Rackmount	2U Rackmount
Hypervisor	VMware vSphere, Microsoft Hyper-V, Citrix, KVM, StoneFly Persepolis	
Processors	Dual 10-Core Xeon Processors (Standard) / Dual 8, 12, 16, 18, 20, 24 or 28-Core Xeon Processors (Optional)	
System Memory	64GB (Standard) / Up to 3TB (Optional)	64GB (Standard) / Up to 2TB (Optional)
SSD for OS	240GB SSD for OS (Standard) / Up to 3.8TB SSD for OS (Optional)	256GB NVMe SSD for OS / Up to 3.8TB NVMe SSD for OS (Optional)
Fast Storage	N/A	256GB up to 3.8TB PCI-E Based NVMe SSD for Fast Data Storage (Optional)
Network Ports	Three Bonded 10Gb RJ-45 (Backwards Compatible with 1Gb) or Two Bonded 10Gb SFP+ Ethernet Connections	Two Bonded 10Gb RJ-45 Ethernet Connections (Backwards Compatible with 1Gb)
Available Slots	Up to 2 PCI-E Slots Can Be Used For Optional Network Card, FC SAN Target or SAS/FC Storage Expansion Kits to Easily Convert Your Existing Storage Appliances into Advanced iSCSI Storage	Up to 6 PCI-E Slots Can Be Used For Optional Network Card, FC SAN Target or SAS/FC Storage Expansion Kits to Easily Convert Your Existing Storage Appliances into Advanced iSCSI Storage
Interface Options	Optional Support for 1Gb RJ-45, 10Gb RJ-45, SFP+, CX4, SR Optical, LR Optical, 40Gb QSFP+, 12Gb SAS, 16Gb FC	
Management	Gigabit Management Port and Intelligent Platform Management Interface (IPMI) with KVM-Over-LAN	
Power Supplies	Redundant 80-PLUS Platinum Hot-Swappable PS	Redundant 80-PLUS Titanium Hot-Swappable PS
Power Output/Input	750W (100-240Vac)	800W (100-127Vac) / 1000W (200-240Vac)
Form Factor	1U Rackmount	2U Rackmount
Dimensions (H x W x D)	1.7" x 17.2" x 29.7"	3.5" x 17.2" x 25.5"

Hardware Specification - StoneFly BG365-HA Disaggregated Cluster Backup Gateway Appliance Models: XS-Series

	Dual 1U Rackmounts	Dual 2U Rackmounts
Hypervisor	Supports Cluster-Enabled High-Availability Hypervisor: VMware vSphere, Microsoft Hyper-V, Citrix, KVM, StoneFly Persepolis	
Processor	10-Core Xeon Processor in Each Node (Standard) / 8, 12, 16, 18, 20, 24 or 28-Core Xeon Processor in Each Node (Optional)	
System Memory	32GB per Node (Standard) / Up to 768GB per Node (Optional)	32GB per Node (Standard) / Up to 1TB per Node (Optional)
NVMe SSD for OS	256GB NVMe SSD for OS in Each Node / Up to 3.8TB NVMe SSD for OS in Each Node (Optional)	
Network Ports	Four Bonded 10Gb RJ-45 Ethernet Connections per Cluster (Backwards Compatible with 1Gb)	
Available Slots	Up to 2 PCI-E Slots per Node Can Be Used For Optional Network Card, FC SAN Target or SAS/FC Storage Expansion Kits to Easily Convert Your Existing Storage Appliances into Advanced iSCSI Storage	Up to 4 PCI-E Slots per Node Can Be Used For Optional Network Card, FC SAN Target or SAS/FC Storage Expansion Kits to Easily Convert Your Existing Storage Appliances into Advanced iSCSI Storage
Interface Options	Optional Support for 1Gb RJ-45, 10Gb RJ-45, SFP+, CX4, SR Optical, LR Optical, 40Gb QSFP+, 12Gb SAS, 16Gb FC	
Management	Gigabit Management Port and Intelligent Platform Management Interface (IPMI) with KVM-Over-LAN per Node	
Power Supplies	Redundant 80-PLUS Platinum Hot-Swappable PS per Node	Redundant 80-PLUS Titanium Hot-Swappable PS per Node
Power Output/Input	500W (100-240Vac) per Node	800W (100-127Vac) / 1000W (200-240Vac) per Node
Form Factor	Two 1U Rackmounts	Two 2U Rackmounts
Dimensions (H x W x D)	1.7" x 17.2" x 25.6" per Node (3.5" Total Rack Height for Two-Node Cluster)	3.5" x 17.2" x 25.5" per Node (7" Total Rack Height for Two-Node Cluster)

Hardware Specification - StoneFly BG365-HA Disaggregated Cluster Backup Gateway Appliance Models: XD-Series

	Dual 1U Rackmounts	Dual 2U Rackmounts
Hypervisor	Supports Cluster-Enabled High-Availability Hypervisor: VMware vSphere, Microsoft Hyper-V, Citrix, KVM, StoneFly Persepolis	
Processors	Dual 10-Core Xeon Processors in Each Node (Standard) / Dual 8, 12, 16, 18, 20, 24 or 28-Core Xeon Processors in Each Node (Optional)	
System Memory	64GB per Node (Standard) / Up to 3TB per Node (Optional)	64GB per Node (Standard) / Up to 2TB per Node (Optional)
SSD for OS	240GB SSD for OS in Each Node (Standard) / Up to 3.8TB SSD for OS in Each Node (Optional)	256GB NVMe SSD for OS in Each Node / Up to 3.8TB NVMe SSD for OS in Each Node (Optional)
Fast Storage	N/A	256GB up to 3.8TB PCI-E Based NVMe SSD for Fast Data Storage per Node (Optional)
Network Ports	Six Bonded 10Gb RJ-45 (Backwards Compatible with 1Gb) or Four Bonded 10Gb SFP+ Ethernet Connections per Cluster	Four Bonded 10Gb RJ-45 Ethernet Connections per Cluster (Backwards Compatible with 1Gb)
Available Slots	Up to 2 PCI-E Slots per Node Can Be Used For Optional Network Card, FC SAN Target or SAS/FC Storage Expansion Kits to Easily Convert Your Existing Storage Appliances into Advanced iSCSI Storage	Up to 6 PCI-E Slots per Node Can Be Used For Optional Network Card, FC SAN Target or SAS/FC Storage Expansion Kits to Easily Convert Your Existing Storage Appliances into Advanced iSCSI Storage
Interface Options	Optional Support for 1Gb RJ-45, 10Gb RJ-45, SFP+, CX4, SR Optical, LR Optical, 40Gb QSFP+, 12Gb SAS, 16Gb FC	
Management	Gigabit Management Port and Intelligent Platform Management Interface (IPMI) with KVM-Over-LAN per Node	
Power Supplies	Redundant 80-PLUS Platinum Hot-Swappable PS per Node	Redundant 80-PLUS Titanium Hot-Swappable PS per Node
Power Output/Input	750W (100-240Vac) per Node	800W (100-127Vac) / 1000W (200-240Vac) per Node
Form Factor	Two 1U Rackmounts	Two 2U Rackmounts
Dimensions (H x W x D)	1.7" x 17.2" x 29.7" per Node (3.5" Total Rack Height for Two-Node Cluster)	3.5" x 17.2" x 25.5" per Node (7" Total Rack Height for Two-Node Cluster)

Note: Customers can choose to bring their own backup licenses or purchase select backup software licenses from StoneFly.

Please refer to chapter 1 for more details about supported network port upgrades ([1.2](#)), processor upgrades ([1.3.1](#)), system memory upgrades ([1.3.2](#)), and SSD for OS upgrades ([1.3.3](#)).

Chapter 4:

Contacting StoneFly

We'd love to hear from you about your projects and your Backup & Disaster Recovery needs. You can contact us via email, call us, or schedule a demo directly on the StoneFly website.

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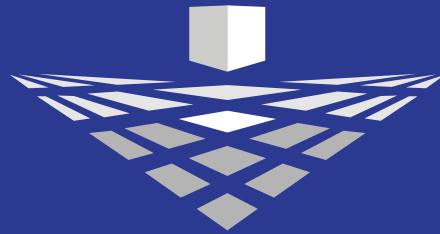
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