

# Windows Server Plus+TM Solution Brief







Choice of Enterprise SAS, SSDs, and SATA Drives



Optional Support for Tape Storage Arrays

## **High Performance High Availability Servers**

Battle-tested servers with high speed storage drives, choice of 10/40/100 Gb network ports, terabytes to petabytes of highly scalable storage capacity, and optimized support for Windows Server 2016 and 2019.



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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, 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 grade data management solutions to SMBs, SMEs, and large organizations worldwide.

#### Wide 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:**

# Server Hardware Overview

In this chapter, we take a closer look at the optional hardware upgrade options, supported storage drives, and the maximum storage capacities of the available servers.

# 1.1 Supported Storage Drives

Following is a list of storage drives supported by StoneFly appliances.

3.5" Enterprise Drives	
12Gb 7200RPM SAS	10TB, 14TB, 16TB, 18TB
6Gb 7200RPM SATA (4 and 6-bay D-Series)	10TB, 14TB, 16TB

2.5" Enterprise Drives	
12GB SAS SSD (1x DWPD)	960GB, 1.9TB, 3.8TB, 7.6TB
12GB SAS SSD (3x DWPD)	800GB, 1.6TB, 3.2TB, 6.4TB
12Gb SAS SSD (10x DWPD)	400GB, 800GB, 1.6TB, 3.2TB
6Gb SATA SSD (3x DWPD)	240GB, 480GB, 960GB, 1.9TB, 3.8TB
(4 and 6-bay D-Series only)	

<sup>\* 2.5&</sup>quot; Enterprise SAS drives are supported in most StoneFly appliances supporting 3.5" Enterprise SAS drives when combined with a special converter or tray.

# 1.1.1 Raw Storage Capacities for StoneFly Servers

The following is a measure of the raw storage capacities of StoneFly appliances. The usable and effective storage capacities differ based on the configured RAID and optional deduplication features.

All StoneFly D, XS and XD-Series appliances with 12-bays or larger are capable of **scaling up** to 256 drives per appliance node when combined with StoneFly expansion units.

All StoneFly appliances can **scale out** to a virtually unlimited number of appliance nodes and corresponding storage capacities.

# Raw Storage Capacities

4-Bay Mini Tower (3.5")	6Gb 7200 RPM SATA	64TB
	6Gb SATA SSD (3x DWPD)	15.2TB
6-Bay 2U Rackmount (3.5")	6Gb 7200 RPM SATA	96TB
	6Gb SATA SSD (3x DWPD)	22.8TB
8-Bay 2U Rackmount (3.5")	12Gb 7200 RPM SAS	144TB
	12Gb SAS SSD (1x DWPD)	60.8TB
	12Gb SAS SSD (3x DWPD)	51.2TB
12-Bay 2U Rackmount (3.5")	12Gb 7200 RPM SAS	216TB
	12Gb SAS SSD (1x DWPD)	91.2TB
	12Gb SAS SSD (3x DWPD)	76.8TB
16-Bay 3U Rackmount (3.5")	12Gb 7200 RPM SAS	288TB
	12Gb SAS SSD (1x DWPD)	121.6TB
	12Gb SAS SSD (3x DWPD)	102.4TB
24-Bay 4U Rackmount (3.5")	12Gb 7200 RPM SAS	432TB
	12Gb SAS SSD (1x DWPD)	182.4TB
	12Gb SAS SSD (3x DWPD)	153.6TB
36-Bay 4U Rackmount (3.5")	12Gb 7200 RPM SAS	648TB
	12Gb SAS SSD (1x DWPD)	276.4TB
	12Gb SAS SSD (3x DWPD)	230.4TB
44-Bay 4U Rackmount (3.5")	12Gb 7200 RPM SAS	792TB

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[EBOD only]	12Gb SAS SSD (1x DWPD)	337.9TB
	12Gb SAS SSD (3x DWPD)	281.6TB
60-Bay 4U Rackmount (3.5"	12Gb 7200 RPM SAS	1,080TB
[EBOD only]	12Gb SAS SSD (1x DWPD)	456TB
	12Gb SAS SSD (3x DWPD)	384TB

**Note:** The raw storage capacities listed above are for appliances fully-populated with a single type of drive. StoneFly appliances can be configured with a combination of different drive types and capacities, thus offering variable raw storage capacities. For more information about the raw capacity of a StoneFly storage appliance, please <u>contact StoneFly pre-sales engineers</u>.

### 1.2 Network Ports

StoneFly D-Series, XS-Series and XD-Series appliances come standard with at least two 10Gb ports per node. The standard 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 StoneFly XS-Series and XD-Series appliances:

## 1.2.1 Network Port Upgrades for StoneFly Servers

- Dual 1Gb Copper Ports
- Quad 1Gb Copper Ports
- Dual 10Gb RJ-45 Copper Ports
- Quad 10Gb RJ-45 Copper Ports
- Dual 10Gb SR Optical Ports with 10Gb SFP+ SR Optical Transceiver Modules
- Single 10Gb LR Optical 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)

**Note:** Available network port upgrades vary depending on the appliance series and available PCI-E slots in the appliance. For more information, <u>contact StoneFly pre-sales engineers</u>.

# 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 storage solution or contact StoneFly pre-sales engineers for more information.

### 1.3.1 Processor Options

	D-Series (Gen 1)	D-Series (Gen 2)	XS-Series	XD-Series
Standard	8-Core Xeon Processor	4-Core Xeon Processor	10-Core Xeon Processor	Dual 10-Core Xeon Processors
Upgrade Options	None	8-Core Xeon Processor	<ul> <li>12-Core Xeon</li> <li>16-Core Xeon</li> <li>18-Core Xeon</li> <li>20-Core Xeon</li> <li>24-Core Xeon</li> <li>28-Core Xeon</li> </ul>	<ul> <li>Dual 12-Core Xeons</li> <li>Dual 16-Core Xeons</li> <li>Dual 18-Core Xeons</li> <li>Dual 20-Core Xeons</li> <li>Dual 24-Core Xeons</li> <li>Dual 28-Core Xeons</li> </ul>

# 1.3.2 System Memory Options

	D-Series	XS-Series	XD-Series
Standard	32GB	32GB	64GB
Upgrade Options	<ul><li>64GB</li><li>128GB</li><li>256GB (Gen 2)</li></ul>	<ul> <li>64GB</li> <li>128GB</li> <li>256GB</li> <li>384GB</li> <li>512GB</li> <li>1TB</li> </ul>	<ul> <li>128GB</li> <li>256GB</li> <li>384GB</li> <li>512GB</li> <li>768GB</li> <li>1TB</li> <li>2TB</li> </ul>

### **1.3.3 SSD for OS**

StoneFly storage appliances use SSD or Flash for hypervisor and/or operating system (OS). This section describes in detail the standard and available upgrade options for the dedicated SSD.

**Note:** NVMe SSD support varies depending on appliance series (D-Series, XS-Series & XD-Series). For more information, please contact <u>StoneFly pre-sales engineers</u>.

### **NVMe SSD for OS Options**

	D-Series, XS-Series, XD-Series
Standard	256GB PCI-E Based NVMe SSD for Hypervisor/OS
Upgrade Options	<ul> <li>512GB PCI-E Based NVMe SSD for Hypervisor/OS</li> <li>1TB PCI-E Based NVMe SSD for Hypervisor/OS</li> <li>2TB PCI-E Based NVMe SSD for Hypervisor/OS</li> <li>3.8TB PCI-E Based NVMe SSD for Hypervisor/OS</li> </ul>

# **Chapter 2:**

# StoneFly Windows Server Plus+TM

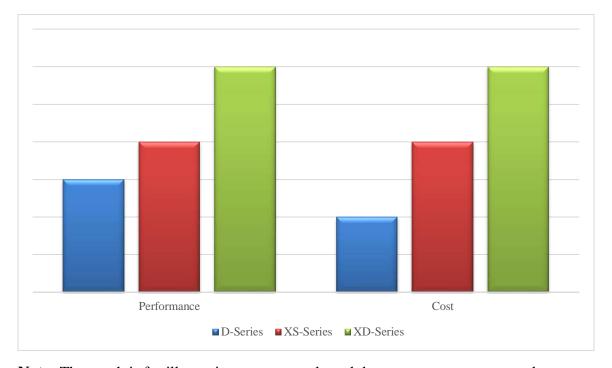
This chapter is divided into two parts. In the first part, we will describe the hardware specifications of available Windows servers D-Series, XS-Series, and XD-series appliances. In the second part, we'll share details about the optional features that you can get as a plus with StoneFly servers.

### 2.1 Windows Server Plus+ Hardware

StoneFly offers the following three appliance series for the Windows Server Plus+ with different performance capabilities and price:

- D-Series (4-bay tower to 36-bay rackmount with Xeon processor)
- XS-Series (8 to 36-bay rackmounts with single scalable Xeon processor)
- XD-Series (8 to 36-bay rackmounts with dual scalable Xeon processors)

Here is an illustration, to give you an idea of how the performance and cost of the three appliance series compare:



**Note:** The graph is for illustrative purposes only and does not represent exact values.

# 2.1.1 Hardware Specifications - StoneFly Windows Server Plus+: D-Series

	4-bay Gen 1	6-bay Gen 1	8-bay Gen 2	12-bay Gen 2	16-bay Gen 2	24-bay (3.5") Gen 2	36-bay Gen 2	24-bay (2.5") Gen 2
Processor	8-Core Xee	on Processor	cessor 4-Core Xeon Pro			8-Core Xeon Proce	essor (Optional)	
System Memory	· ·	) / Up to 128GB ional)		320	SB (Standard) / Up	to 256GB (Option	aal)	
NVMe SSD for OS			2	256GB (Standard) / Up	to 3.8TB (Optiona	ıl)		
RAID Controller		ance 6Gb SATA AID Controller	High	Performance 12Gb SA	AS Hardware RAID	Controller with RA	AID Cache Battery Ba	ckup
Supported RAID Levels	RAID 0, 1, 5, 6, 10	RAID 0, 1, 5, 6, 10, 50			RAID 0, 1, 3, 5, 6	5, 10, 30, 50, 60		
Drive Bays	4 x 3.5"	6 x 3.5"	8 x 3.5"	12 x 3.5"	16 x 3.5"	24 x 3.5"	36 x 3.5"	24 x 2.5"
Supported Storage Drives		SATA: k, SSD		12Gb SAS: 7.2k, SSD				12Gb SAS: SSD
Expansion		No External Expans	ion		Supports up to	256 Total Drives v	ia EBODs (4PB)	
Network Ports	Dual Bonded 1	0Gb RJ-45 Ports		Dual Bonded 10G	b RJ-45, Dual 10G	b SFP+ and Triple	1Gb RJ-45 Ports	
Available Slots for Additional Network Ports	No addit	No additional slots  Up to 1 PCI-E Slots Can Be Used For Optional Network Card or FC SAN Target Upgr Optional Support for 1Gb RJ-45, 10Gb RJ-45, SFP+, CX4, SR Optical, LR Optical, 40Gb						
Management		Gigabit N	Management Port and	Intelligent Platform M	anagement Interfac	e (IPMI) with KVI	M-Over-LAN	
Power Supplies	80-PLUS Bronze PS	High Efficiency PS	Redundant 80- PLUS Titanium Hot-Swappable PS	Redundant 80- PLUS Platinum Hot-Swappable PS	Redundant 80-PLUS Titanium Hot-Swappable PS			Redundant 80- PLUS Platinum Hot-Swappable PS
Power Output/Input	250W (100-240Vac)	500W (100-240Vac)	800W (100- 127Vac) / 1000W (200-240Vac)	920W (100-240Vac)	1000W (100 – 127Vac) / 1200W (200 – 240Vac)			920W (100-240Vac)
Form Factor	Mini-Tower		2U Rackmount		3U Rackmount 4U Rackmount		ckmount	2U Rackmount
Dimensions (H x W x D)	9.5" x 8.3" x 11"	3.5" x 16.9" x 26"	3.5" x 17.2" x 25.5"	3.5" x 17.2" x 25.5"	5.2" x 17.2" x 25.5"	7" x 17.2" x 26"	7" x 17.2" x 27.5"	3.5" x 17.2" x 24.8"

# 2.1.2 Hardware Specifications - StoneFly Windows Server Plus+: XS-Series

	8-bay 12-bay 16-bay 24-bay (3.5") 36-bay 24-bay (2.5")							
	·	,	,	• \ /	•	24-bay (2.5")		
Processor	1	10-Core Xeon Processor (Standard) / 12, 16, 18, 20, 24 or 28-Core Xeon Processor (Optional)						
System Memory			32GB (Standard) / U	Up to 1TB (Optional)				
NVMe SSD for OS			256GB (Standard) / U	Jp to 3.8TB (Optional)				
RAID Controller		High-Performance 12G	b SAS Hardware RAII poorts RAID Levels 0, 1			)		
		•						
Drive Bays	8 x 3.5"	12 x 3.5"	16 x 3.5"	24 x 3.5"	36 x 3.5"	24 x 2.5"		
Supported Storage			12Gb SAS drives:			12Gb SAS drives:		
Drives			7.2k, SSD			SSD		
Expansion	No Ext. Expansion		Supports up to	256 Total Drives via l	EBODs (4PB)			
<b>Network Ports</b>		Dual Bonded 10Gł	o RJ-45 Ethernet Conne	ections (Backwards Cor	mpatible with 1Gb)			
Available Slots for Additional Network Ports	Oŗ	Up to 2 PCI-E Slots Cotional Support for 1Gb	an Be Used For Options RJ-45, 10Gb RJ-45, SI		0 10			
Management	Gigat	it Management Port and	d Intelligent Platform N	Management Interface (	IPMI) with KVM-Over	-LAN		
Power Supplies	Redundant 80- PLUS Titanium Hot-Swappable PS	Redundant 80- PLUS Platinum Hot-Swappable PS	**					
Power Output/Input	800W (100- 127Vac) / 1000W (200-240Vac)	920W (100-240Vac)	7ac) 1000W (100 – 127Vac) / 1200W (200 – 240Vac) 920W (100-240Vac)					
Form Factor	2U Rac	kmount	3U Rackmount 4U Rackmount 2U Rackmount					
Dimensions (H x W x D)	3.5" x 17.2" x 25.5"	3.5" x 17.2" x 25.5"	5.2" x 17.2" x 25.5"	7" x 17.2" x 26"	7" x 17.2" x 27.5"	3.5" x 17.2" x 24.8"		

# 2.1.3 Hardware Specification - StoneFly Windows Server Plus+: XD-Series

	8-bay	12-bay	16-bay	24-bay (3.5")	36-bay	24-bay (2.5")
Processors	Dual 10-Core Xeon Processors (Standard) / Dual 12, 16, 18, 20, 24 or 28-Core Xeon Processors (Optional)					
System Memory			64GB (Standard) / I	Up to 2TB (Optional)		
NVMe SSD for OS			256GB (Standard) / U	Jp to 3.8TB (Optional)		
Fast Storage		256GB up to 3.8	BTB PCI-E Based NVM	le SSD for Fast Data St	orage (Optional)	
RAID Controller		<u> </u>	b SAS Hardware RAID ports RAID Levels 0,		• •	)
Drive Bays	8 x 3.5"	12 x 3.5"	16 x 3.5"	24 x 3.5"	36 x 3.5"	24 x 2.5"
Supported Storage Drives			12Gb SAS drives: 7.2k, SSD			12Gb SAS drives: SSD
Expansion	No Ext. Expansion		Supports up to	o 256 Total Drives via	EBODs (4PB)	
Network Ports		Dual Bonded 10Gł	o RJ-45 Ethernet Conne	ections (Backwards Cor	mpatible with 1Gb)	
Available Slots for Additional Network Ports		•	n Be Used For Optional RJ-45, 10Gb RJ-45, SI	` '	0 10	
Management	Gigab	oit Management Port an	d Intelligent Platform N	Management Interface (	IPMI) with KVM-Over	-LAN
Power Supplies	Redundant 80- PLUS Titanium Hot-Swappable PS	Redundant 80- PLUS Platinum Hot-Swappable PS	LUS Platinum Redundant 80-PLUS Titanium Hot-Swappable PS PLUS Platinum			
Power Output/Input	800W (100- 127Vac) / 1000W (200-240Vac)	920W (100-240Vac)	1000W (100 – 127Vac) / 1200W (200 – 240Vac) 920W (100-240Vac)			
Form Factor	2U Rac	kmount	3U Rackmount	4U Rac	kmount	2U Rackmount
Dimensions (H x W x D)	3.5" x 17.2" x 25.5"	3.5" x 17.2" x 25.5"	5.2" x 17.2" x 25.5" 7" x 17.2" x 26" 7" x 17.2" x 27.5"		3.5" x 17.2" x 24.8"	

Please refer to Chapter 1 for more information about available network port upgrades ( $\frac{1.2}{1.2}$ ), supported storage drive capacities ( $\frac{1.1}{1.1}$ ), raw storage capacities (1.1.1), processor (1.3.1), system memory (1.3.2), and SSD for OS (1.3.3), and other upgrades.

# 2.2 Windows Server Plus+: Optional Software Features

StoneFly also offers you the ability to enable integrated features that'll help you build a complete data center.

**Note:** The following features are integrated but optional. If you'd like to use these features, you have to opt-in for them and purchase licenses.

The optional integrated features can be divided into the following types:

- Data protection
- Storage optimization
- Advanced data services
- Storage provisioning

#### **2.2.1 Data Protection Features**

The following features can be used to protect your critical workloads from threats like ransomware attacks, software malfunction, human error, accidental/malicious deletion, and more.

- **Air-gap volumes** Isolated software-defined target storage volumes fit for storing backup copies, snapshots, and replicas of your critical volumes. These storage volumes are particularly useful for redundancy and help you maintain access to your data even if your production environment encounters a disaster.
- Write-Once Ready Many (WORM) repositories WORM volumes, as the name suggests, are target storage volumes that can be written only once and read as many times as needed. In other words, once you store a backup file, snapshot, or any folder in this volume, it cannot be edited or deleted as per defined policies. This makes the WORM volumes ideal for compliance and ransomware protection.
- Immutable snapshots Immutable snapshots are volume-level snapshots that cannot be edited or deleted. This is another data protection feature that's useful against ransomware attacks and other disasters as well. With this feature, you always have a way to recover critical volumes, minimize downtime, and have your data restored within minutes.
- **Backup vault** Highly secure storage repositories that store real-time replicas of your critical volumes for redundancy and quick recovery; whenever you need it. Similar to air-gap volumes, the backup vault is isolated from your production environment. So you always have a copy of your recently created volumes to use while your production environment is recovered (near-zero downtime).
- **Anti-ransomware** AI-based automated detection and removal of ransomware, malware, or virus.

• Threat scan – Light-weight threat scan that checks for dormant ransomware, malware, and virus. In the event of detection, the effected files are quarantined and storage administrators are notified.

# 2.2.2 Storage Optimization Features

The following features enable you to reduce the footprint of your volumes, simplify data management, and effectively utilize available storage capacity.

- **Deduplication** Effectively reduce the size of your data by setting up deduplication ratios that can go up to 100x (depending on available resources).
- **Thin provisioning -** Reclaim and repurpose unused storage to quickly provision storage resources for new projects, applications and other workloads.
- **Automated tiering** Set up policies to automatically transfer your data between performance and capacity tiers. Simplify data management and use available resources effectively.
- **SSD Caching** Use high speed flash drives (SSDs) to set up frontend SSD caching for frequently accessed workloads and improve read-write speeds (IOPS) with ease.

# 2.2.3 Advanced Data Services

With the following features, you can add more capabilities to your Windows server. No additional hardware needed – all you need to do is purchase the licenses so that you can access the integrated services.

- Cloud Connect Connect your Windows server to the cloud of your choice. You can expand your storage capacity by connecting to highly scalable and affordable cloud repositories. With cloud connect, you can store redundant copies of your data in the cloud, set up collaborative workspace, or store backup copies, snapshots, or replicas of your data.
- Sync & async replication Set up mirroring or syncing across multiple clusters using synchronous (or real-time) replication. With sync replication, you can have redundant copies to enhance data availability. You can also choose asynchronous (scheduled) replication to save on bandwidth, improve network usage, and store copies across multiple sites and servers.
- Advanced reporting Monitor resource usage such as CPU, system memory, bandwidth, etc. with real-time graphical reporting so that you're always in control of your data center.

# 2.2.4 Storage Provisioning

As an additional option, you can get storage provisioning capabilities so that you can use idle storage in your Windows server for file storage, block-level storage, or object storage.

With this optional feature, you can set up:

- NAS volumes CIFS/SMB or NFS volumes for scalable file storage for your media assets, backup data, and other workloads.
- **SAN volumes** iSCSI volumes for your databases (MySQL, Oracle, PostgreSQL, etc.), and applications like SAP HANA, and other CRM, EHR software.
- **S3 volumes** Scalable repositories compatible with mainstream backup software, databases, applications, and virtual environments.
- **Unified storage** Unified license enabling you to provision NAS, SAN, and S3 volumes using available storage space.

**Note:** Above mentioned features are optional. To get any of these features, you have to purchase additional licenses separately.

# **Chapter 3:**

# Contacting StoneFly

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

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The Original Innovator of the iSCSI Protocol



