

White Paper

# StarWind Backup Appliance

## A Revolution in Backup and Restore

[StarWind Backup Appliance \(BA\)](#) revolutionizes the approach to and the technology behind backup overall. We've taken the components traditionally associated with performance enhancement and created a revolutionary backup solution.

StarWind Backup Appliance is a state-of-the-art all-NVMe backup server fit inside a tiny 1U platform that brings unprecedented backup and restore speed and efficiency.

# Typical Backup Infrastructure

Traditional backup systems take significant time to perform a backup and, consequentially, require even more to restore it. Disaster recovery and data protection suffer in speed and quality as a result. This is mostly caused by legacy, slow HDDs.

While the main, production IT infrastructure serves high workloads and is built with high performance in mind, the backup server usually becomes an afterthought and a storage bottleneck. It also results in the need to thoroughly calculate the backup window that will fit the time available for executing the backup.

This period of time should be as short as possible and cover all the backup operations without impacting the main infrastructure.

## StarWind Backup Infrastructure

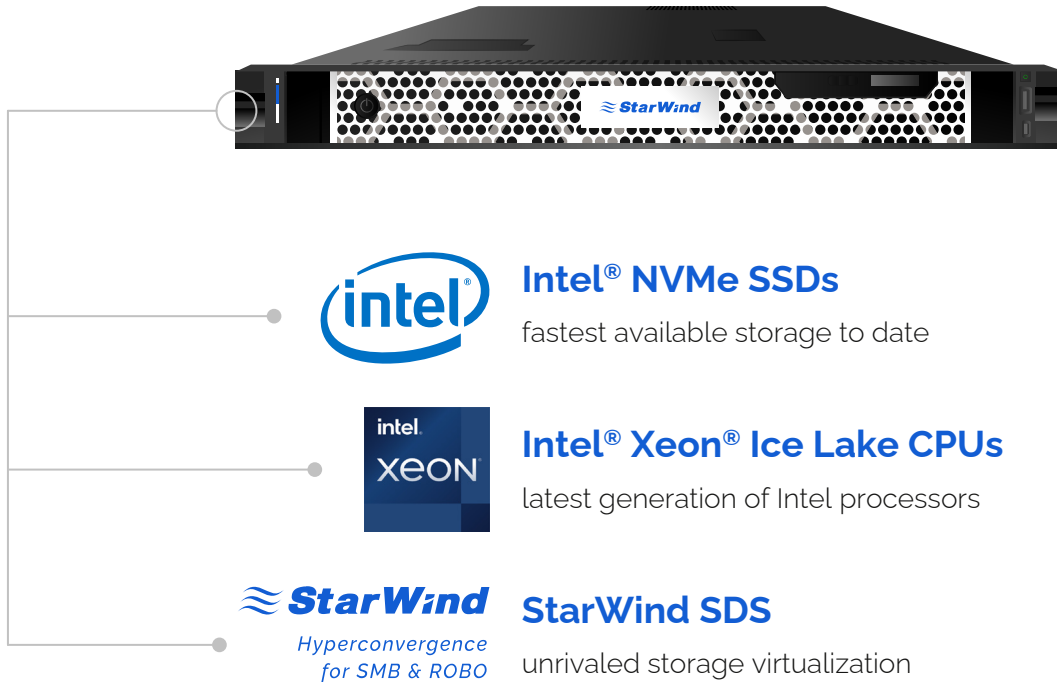
With all the problems mentioned, the backup process can become a real pain not only for the system administrators but for the entire company. Backup Appliances from StarWind eliminate any dependency of the production environment on slow backup systems by utilizing the power of NVMe-based storage.

Typical, slow backup recovery turns into instant recovery with StarWind. There is no more need in planning for backup windows and sacrificing your production operation speed or limiting its availability hours for the sake of performing a backup.

Moreover, not only the backup speed gets increased but the restore speed as well, basically allowing to meet any RTO and RPO requirements.

# World-Shattering Backup Server

StarWind BA combines cutting-edge technology and components within one rock-solid backup solution that has no alternative in the industry when it comes to speed:



StarWind Backup Appliance is a leap into the future from quickly degradable and ultra-slow HDDs to lightning-fast NVMe flash of tomorrow. Our backup solution qualitatively changes the approach to backups and we've efficiently combined tech that's never been seen work together before. The backup storage is logically separated from the backup software to increase security and is connected only once the backup job is started.



StarWind BA is also fully compatible with Veeam B&R V10 and V11, as well as with Veeam Instant VM Recovery. Now, your backup infrastructure is as good as your production one, if not better.

## Key Benefits



### Blazing-Fast Backups

StarWind BA eliminates the need in trying to schedule backup windows as well as any dependency of fast production environment on slow backup systems.



### Ultra-Fast Restores

StarWind BA allows you to fit even the strictest RTPO requirements and makes sure your workloads will perform as fast as possible even during critical events.



### Eco-Friendly Solution

StarWind BA substantially improves your ecological footprint due to less heat generated and less power consumed per I/O to cool the system thanks to being all-NVMe.



### Omni-Compatibility

The solution will perfectly fit into your existing backup infrastructure or become a basis for a new one without any hardware, hypervisor, or backup software restrictions.

## Key Features



### Enhanced Data Safety

Segregates backup storage and backup application layers with smart storage connection and protects against drive failure by employing erasure-coding technologies.



### Easy to Start and Use

StarWind Backup Appliance comes as a fully pre-configured backup solution designed as per your specific requirements and is easily operated through a Web UI.



### Transparent Architecture

The transparent and future-proof architecture combines the best commodity hardware, an industry-standard hypervisor of your choice, and a StarWind SDS engine.



### ProActive Premium Support

We will make sure that your backups are always performed successfully and no issues remain unnoticed, monitoring the status of your backup infrastructure 24/7/365.

# Enter the New Age of Backup with StarWind

StarWind All-NVMe Backup Appliance will become the perfect fit for those Enterprise ROBO, SMB, and Edge that are looking to simplify their backup process administration, reduce their backup window, and be able to restore any file unprecedentedly fast.

It's not just a bunch of disks, but a wholesome backup solution that provides for an extensively increased backup infrastructure longevity by being more resilient and consuming little energy while ensuring unprecedented speed of restores for files and VMs of any size, making it a smart and highly cost-efficient investment.

## Contacts



### Phone number

+1 617 449 77 17  
+44 2037 691 857  
+34 629 03 07 17



### Fax

+1 617 507 58 45



### Voice Mail

+1 866 790 26 46



### Customer Support Portal

[www.starwind.com/support](http://www.starwind.com/support)

### Support Forum

[www.starwind.com/forums](http://www.starwind.com/forums)

### Sales

[sales@starwind.com](mailto:sales@starwind.com)

### General Information:

[info@starwind.com](mailto:info@starwind.com)

To learn more, visit  
[www.starwindsoftware.com](http://www.starwindsoftware.com)