

StarWind Backup Appliance



Overview

Want to get rid of backup window and recovery planning? Need your backups to be at your fingertips at all times?

StarWind Backup Appliance brings unprecedented backup and restore speed, eliminating the backup window concept entirely, ushering in a new age of data protection.

Reduce your backup and restore time to zero while simplifying backup administration and making your backup infrastructure immutable and ransomware-resilient by design on all levels, against all odds.

What's new?

- HOLY GRAID — the innovative approach to processing RAID via an NVMe-oF RAID card, bypassing CPU and liberating much needed compute — now part of StarWind Backup Appliance!
- StarWind web UI boosted with new functionality for even smoother backup infrastructure administration experience
- 3rd Generation of Intel® Xeon® Scalable Processors (Ice Lake), PCI-E 4.0, Dell and Supermicro hardware provide unique \$/IOPS and \$/TB ratios

Ready-to-Backup. Multi-Stage Protection. Lightning-Fast.

StarWind backup solution eliminates the dependency of production IT environments on the backup processes. Powered by all-NVMe storage, it fully removes the common backup repository performance bottleneck and the need to plan and fit a specific backup window.

The solution combines cutting-edge hardware (NVMe, latest-gen CPUs) and software (StarWind SAN & NAS, Veeam B&R) in a compact 1U, resulting in a very low footprint. The state-of-the-art design provides for increased longevity, easy scalability, streamlined management, and multi-tier ransomware protection (local, VTL, and cloud).

On top of bringing the fastest backup and restore speeds available to date, StarWind Backup Appliance has a transparent architecture that boasts an SME-proof price. Comes pre-configured to your requirements with assisted integration and migration of backups included at no extra cost.



24/7/365 Ultrafast Backup Infrastructure



All-NVMe design, along with StarWind-native NVMe-oF Initiator, makes backup infrastructure faster than primary storage, enabling lightning-fast backup and restore.



Includes ProActive Premium Support, which combines perpetual monitoring, machine learning failure prediction, call-back-home, and automated remote troubleshooting for flawless 24/7 operation.



98% of support cases resolved without customer intervention.

Performance and Features

- **Backup Speed.** Blazing-fast backups and near-to-instant restores allow to fit even the strictest RTO / RPO requirements.
- **Data Safety.** Backup storage and backup software logically separated, with auto-connect / auto-disconnect.
- **Ransomware.** Backups are immutable and encrypted in "air-gapped" virtual tapes, plus automated tiering to cloud.
- **Resiliency.** StarWind SDS and ProActive Support Services ensure frictionless operation all the time.
- **Backup Software.** Native enablement for Veeam Instant VM Restore. Hardened (according to Veeam's best practices) Linux-based internal Veeam backup repository. Compatible with any backup software.

Uniqueness of Experience

- **Management.** Lightweight web UI simplifies the backup administration, making it intuitive.
- **Hardware.** Tiny 1-node platform with improved environmental footprint (less heat generated, less power to cool).
- **Expenses.** Partnerships and design allow for a democratic price with supported, flexible BYO license policy.
- **Deployment.** Solution tailored to your needs with cost-free pre-configuration, integration and migration.
- **Innovation.** High longevity and actuality thanks to all-NVMe backend, NVMe-oF Initiator, and GRAID, which will become the performance and redundancy standard in the near future.

Equip yourself in advance, beat your competitors.

Available Configurations

StarWind Engineers will help you choose the most appropriate available pre-sized specification or size an individual one made just for your requirements. StarWind Backup Appliance comes ready-to-work, with no hardware or software restrictions,

Supported Hypervisors:

Microsoft Hyper-V 2016, 2019, 2022; VMware vSphere 6.5, 6.7, 7.0; configurable with any other industry-standard hypervisor

Supported Storage Protocols:

iSCSI, SMB3, NFSv4.1, NVMe-oF

Backup Software:

Veeam® Backup and Replication™ V10 and V11 certified; configurable with any other industry-standard backup software

Recommended Monitoring, Reporting, and Capacity Planning:

Veeam® ONE™ V10 and V11

Management and Security:

StarWind Web UI, StarWind vCenter Plugin, StarWind ProActive Premium Support



Dell PowerEdge 15th Generation Servers



Supermicro X12 Servers



Intel® Xeon® 3rd Generation Scalable Processors (Ice Lake)



NVMe SSDs



Mellanox Networking



GRAID SupremeRAID™



StarWind Software-Defined Storage Engine

System configurations presented in this document are for reference only. For exact system configuration, please inquire with your Account Manager.

Model	BA-30	BA-60	BA-120
Chassis Configuration	1U 5/10 bays	1U 9/10 bays	1U 9/10 bays
CPU	3rd Generation Intel® Xeon® Scalable Processors 2 x Intel® Xeon® Silver 4309Y, 2.8 GHz, 8C/16T		
RAM*	128 GB		
Storage Media	7.68 TB U.2 NVMe		15.36 TB U.2 NVMe
Usable Capacity**	30.7 TB	61.4 TB	122.8 TB
RAID Mechanism	GRAID		
Networking***	2 x 10 GbE Base-T, 2 x 10/25 GbE SFP28		

* The default amount of RAM. The figures be customized upon request to enable the recovery of your production on the backup appliance

** Usable capacity after the RAID

*** Networking can be customized upon request

Contacts



Phone number

+1 617 449 77 17
+44 2037 691 857
+49 800 100 68 26



Fax

+1 617 507 58 45



Voice Mail

+1 866 790 26 46



Customer Support Portal

www.starwind.com/support

Support Forum

www.starwind.com/forums

Sales

sales@starwind.com

General Information:

info@starwind.com

To learn more, visit

www.starwind.com

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