

# StarWind HCI Appliance



## Overview

**Looking to upgrade aging servers or storage? Need to build new IT infrastructure from the ground up?**

StarWind HCI Appliance (HCA) is a turnkey private and hybrid cloud building block designed to provide exceptional application uptime with limited IT resources and budgets.

Reduce your IT infrastructure costs and complexity by superseding your legacy combination of servers and storage (NAS or SAN) with a highly efficient and easily scalable virtualization platform.

## What's new?

- HOT! StarWind HCI Appliance now available in flexible Subscription payments
- StarWind Command Center revamped with new features and functionality
- All-NVMe options added to StarWind HCI, Backup, and Storage Appliance specifications
- 3rd Generation Intel® Xeon® Scalable Processors (Ice Lake), PCI-E 4.0, Dell and Supermicro hardware provide unique \$/IOPS and \$/TB ratios

# Ready-to-Work | Fire-and-Forget | Fault-Tolerant

StarWind HCI Appliance unites compute, storage, networking, hypervisor, and vSAN within a tiny 2-node HCI cluster.

All components are best-of-breed, hand-picked, and tightly integrated into a bespoke configuration made to bring the optimal price-quality option for a given StarWind HCA customer.

StarWind HCA includes ProActive Premium Support with health monitoring, machine learning failure prediction, and automated remote troubleshooting for flawless 24/7 operation. ProActive Support will "babysit" your IT environment round-the-clock, resulting in 98% of issues being resolved without customer intervention.

Each StarWind HCA is tailored to customer requirements. ProActive Support, Assisted Migration, and Guided Commissioning are included at no additional cost.

**StarWind HCI saves us over \$100,000 over next 3 Years.**

*StarWind HCI delivers as promised. The most helpful for our environment were scalability, reliability, redundancy, lowered upfront and reoccurring hardware cost via the vSAN portion of the product.*

**Cloud Security Architect**  
Small Business | Firm Size 50 or fewer employees

**StarWind will take your business to the next level.**

*While the product is superb, the 24/7 support stands out as the no.1 item. I also like that they have provided us with top-of-the-line equipment and often know about our problems before we do.*

**IT Manager**  
Retail | Firm Size 50-250M USD

**Amazing technical support and rock-solid product!**

*Support was great throughout the entire process. They helped in the design and implementation of the product, by gathering information on my existing infrastructure and then designing the HCA around our needs.*

**Director of Technology**  
K-12 | Gov't/PS/ED <5,000 Employees

## Performance and Features

- Hybrid Cloud feature provides clustering with active-active data replication between on-premises and AWS, Azure or any other public cloud
- RDMA feature boosts application performance by offloading strain on CPU cores and eliminating I/O overhead
- Fault Tolerance, High Availability, NVMe Powered Hot Tier, Secure Backups, Cloud DR and more

## Simplicity of Experience

- Zero configuration, migration, and integration efforts
- Single-pane-of-glass operation via StarWind Command Center
- One browser tab to perform 20% of your IT-related routines in a few clicks that would otherwise take 80% of your time
- Provides easy, unrestricted scale-up and scale-out
- No-effort 100% data availability

# Available Configurations

StarWind Engineers will help you choose the most suitable available pre-sized specification or size an individual one made just for your requirements. Simple and transparent architecture alongside partnerships with hardware vendors assure an SMB-proof, reasonable price.

### Supported Hypervisors:

Microsoft Hyper-V 2012R2, 2016, 2019, 2022; VMware vSphere 6.5, 6.7, 7.0; KVM coming soon

### Supported Container Platforms:

Docker, Kubernetes

### Supported IaaS Platforms:

OVH vCloud Air

### Supported Storage Protocols:

iSCSI, iSER, SMB3, SMB Direct, NFSv4.1, NVMe-oF

### Supported Storage Management & Integrations:

SMI-S, VVols, Redfish™, Swordfish™

### Recommended Switches:

Mellanox MSN2100, MSN2010, Dell S4810

### Virtual Machine Backup and Replication:

Veeam® Backup and Replication™ V10 and V11

### Monitoring, Reporting and Capacity Planning:

Veeam® ONE™ V10 and V11

### Management and Security:

StarWind Command Center, [StarWind ProActive Services](#)

### Optional Components:

Microsoft SCVMM, Windows Admin Center; VMware vSphere Operations Management



Dell PowerEdge 15th Generation Servers



Supermicro X12 Servers



Intel® Xeon® 3rd Generation Scalable CPUs



Intel® Optane™ Non-Volatile Memory



Mellanox RDMA-Enabled Networking



StarWind vSAN Software-Defined Storage



NVIDIA GPUs (upon client request)

*Switchless scale-out options are available for certain models. For additional details please contact your sales manager.*

*Available hardware options are Supermicro and Dell OEM. Other OEM options are available on demand.*

# Performance Flash

**StarWind Performance Flash Appliance** is designed for small and mid-size SMB virtualized environments. All-flash storage with Intel® OPTANE™ powered hot tier configuration provides the very best performance. Also, you can scale up by adding more storage, memory, and interface cards. Clusters can also have mixed node configurations to adapt multiple workload requirements. With StarWind ProActive Premium Support included with the appliance, the responsibility for health status monitoring and availability of your applications is covered by StarWind intelligent monitoring service and a team of professional support engineers.

Model	P-Spec 3.8	P-Spec 7.6	P-Spec 15.3
<b>Chassis Configuration*</b>	1U 8/10 bays	1U 8/10 bays	2U 12/24 bays
<b>CPU</b>	3rd Generation Intel® Xeon® Scalable Processors		
	2 x Intel® Xeon® Silver 4309Y, 2.8 GHz, 8C/16T	2 x Intel® Xeon® Silver 4309Y, 2.8 GHz, 8C/16T	2 x Intel® Xeon® Gold 6326, 2.9 GHz, 16C/32T
<b>RAM, GB</b>	128 GB	256 GB	512 GB
<b>Scale-up Support</b>	Storage/NIC/RAM		
<b>Usable Capacity**</b>	3.8 TB	7.6 TB	15.3 TB
<b>Storage</b>	2 x 400 GB Intel® OPTANE™ Memory	2 x 400 GB Intel® OPTANE™ Memory	2 x 400 GB Intel® OPTANE™ Memory
	960GB SATA Mixed Use SSD	1920GB SATA Mixed Use SSD	1920GB SATA Mixed Use SSD
	2 x 480 GB SSD RAID-1 Boot Storage	2 x 480 GB SSD RAID-1 Boot Storage	2 x 480 GB SSD RAID-1 Boot Storage
<b>Networking</b>	2 x 1 GbE Base-T; 4 x 25 GbE OCP 3.0	2 x 1 GbE Base-T; 4 x 25 GbE OCP 3.0	2 x 1 GbE Base-T; 4 x 25 GbE OCP 3.0
	2 x 25 GbE (Private, RDMA-enabled)	2 x 25 GbE (Private, RDMA-enabled)	2 x 25 GbE (Private, RDMA-enabled)
<b>ProActive Services***</b>	StarWind ProActive Premium Support Included by Default		
<b>Deduplication and Compression</b>	Yes		

\*Chassis Configuration and Scale-Up Support may vary

\*\*Approximate capacity

\*\*\*Read more about StarWind ProActive Premium Support [here](#)

# Capacity Flash

**StarWind Capacity Flash Appliance** utilizes Intel® OPTANE™ powered hot tier to handle performance-intensive workloads in a cost-efficient manner. It provides an excellent balance between performance and cost. These models are built to deliver high storage capacity and great performance. Also, you can scale up by adding more storage, memory, and interface cards. Clusters can also have mixed node configurations to adapt multiple workload requirements. With StarWind ProActive Premium Support included with the appliance, the responsibility for health status monitoring and availability of your applications is covered by StarWind intelligent monitoring service and a team of professional support engineers.

Model	C-Spec 15.3	C-Spec 30.7	C-Spec 61.4
<b>Chassis Configuration*</b>	2U 20/24 bays	2U 20/24 bays	2U 20/24 bays
<b>CPU</b>	3rd Generation Intel® Xeon® Scalable Processors		
	2 x Intel® Xeon® Gold 6326, 2.9 GHz, 16C/32T	2 x Intel® Xeon® Gold 6326, 2.9 GHz, 16C/32T	2 x Intel® Xeon® Gold 6326, 2.9 GHz, 16C/32T
<b>RAM, GB</b>	256 GB	256 GB	512 GB
<b>Scale-up Support</b>		Storage/NIC/RAM	
<b>Usable Capacity**</b>	15.3 TB	30.7 TB	61.4 TB
<b>Storage</b>	2 x 400 GB Intel® OPTANE™ Memory	2 x 400 GB Intel® OPTANE™ Memory	2 x 400 GB Intel® OPTANE™ Memory
	960GB SATA Read-Intensive SSD	1920GB SATA Read-Intensive SSD	3840GB SATA Read-Intensive SSD
	2 x 480 GB SSD RAID-1 Boot Storage	2 x 480 GB SSD RAID-1 Boot Storage	2 x 480 GB SSD RAID-1 Boot Storage
<b>Networking</b>	2 x 1 GbE Base-T; 4 x 25 GbE OCP 3.0	2 x 1 GbE Base-T; 4 x 25 GbE OCP 3.0	2 x 1 GbE Base-T; 4 x 25 GbE OCP 3.0
	2 x 25 GbE (Private, RDMA-enabled)	2 x 25 GbE (Private, RDMA-enabled)	2 x 25 GbE (Private, RDMA-enabled)
<b>ProActive Services***</b>	StarWind ProActive Premium Support Included by Default		
<b>Deduplication and Compression</b>		Yes	

\*Chassis Configuration and Scale-Up Support may vary

\*\*Approximate capacity

\*\*\*Read more about StarWind ProActive Premium Support [here](#)

# Value Flash

**StarWind Value Flash Appliance** is an option for low-footprint IT infrastructures. These models are built to provide a balance between performance and cost-efficiency for several VMs and low storage requirements. Also, you can scale up by adding more storage, memory, and interface cards. Clusters can also have mixed node configurations to adapt multiple workload requirements. With StarWind ProActive Premium Support included with the appliance, the responsibility for health status monitoring and availability of your applications is covered by StarWind intelligent monitoring service and a team of professional support engineers.

Model	V-Spec 3.8	V-Spec 7.6	V-Spec 15.3
<b>Chassis Configuration*</b>	1U 6/10 bays	1U 6/10 bays	2U 10/16 bays
<b>CPU</b>	3rd Generation Intel® Xeon® Scalable Processors		
	2 x Intel® Xeon® Silver 4309Y, 2.8 GHz, 8C/16T	2 x Intel® Xeon® Silver 4309Y, 2.8 GHz, 8C/16T	2 x Intel® Xeon® Silver 4309Y, 2.8 GHz, 8C/16T
<b>RAM, GB</b>	128 GB	128 GB	256 GB
<b>Scale-up Support</b>	Storage/NIC/RAM		
<b>Usable Capacity**</b>	3.8 TB	7.6 TB	15.3 TB
<b>Storage</b>	960GB SATA Read-Intensive SSD 480 GB SSD RAID-1 Boot Storage	1920GB SATA Read-Intensive SSD 480 GB SSD RAID-1 Boot Storage	1920GB SATA Read-Intensive SSD 480 GB SSD RAID-1 Boot Storage
<b>Networking</b>	2 x 1 GbE Base-T; 4 x 25 GbE OCP 3.0  2 x 25 GbE (Private, RDMA-enabled)	2 x 1 GbE Base-T; 4 x 25 GbE OCP 3.0  2 x 25 GbE (Private, RDMA-enabled)	2 x 1 GbE Base-T; 4 x 25 GbE OCP 3.0  2 x 25 GbE (Private, RDMA-enabled)
<b>ProActive Services***</b>	StarWind ProActive Premium Support Included by Default		
<b>Deduplication and Compression</b>	Yes		

\*Chassis Configuration and Scale-Up Support may vary

\*\*Approximate capacity

\*\*\*Read more about StarWind ProActive Premium Support [here](#)

# Contacts



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