



HCA Value Proposition

StarWind HyperConverged Appliance is a complete turnkey solution designed to eliminate unreasonably high complexity and cost of IT infrastructures. The HCA platform seamlessly integrates into any environment and takes application performance and availability to a whole new level. We further simplify the process by assisting each customer with migration and integration.

Also, StarWind HCA completely excludes customer effort in monitoring and supporting the infrastructure. By combining monitoring and proprietary analytics, StarWind ProActive Support guarantees unprecedented uptime and provides insights on resource planning and upgrade suggestions. In addition, HCA now supports true HA hybrid cloud clustering between on-premises and public cloud.

Performance and Features



- Storage fault tolerance combined with local reconstruction code for maximum resiliency
- Multiple hypervisor support for a seamless integration into any existing environment
- Uncompromised performance thanks to "Grid" scale out & leveraging "data locality" for all I/O

Simplicity of Use



- Built to order systems combined with individual migration assistance for maximum ease of deployment
- Single pane of glass control over your environment with StarWind Manager
- Single point of contact ProActive Support as a default, along with 4 hours and next business day hardware parts replacement options

Cost Efficiency



- 95% of resources are available to the applications since less than 5% RAM, CPU, and storage consumed by SDS stack and management
- Public cloud storage used for backups and archival: pay only for the storage capacity you are using
- Commercial Off-the-Shelf components, no overpriced proprietary hardware



Anchor Brewing Implements StarWind as a Storage Solution for Virtual Desktop Infrastructure (VDI)

"The stability has never been an issue, not even a single hiccup. This is a product I would highly recommend especially in the SMB market where budgets are always tighter and utilizing hardware for multiple purposes makes the management very happy."

Daniel Covell, IT Consultant of Anchor Brewing Company, Founder and President of The Covell Group LLC

Supported Hypervisors: Hyper-V, incl. Microsoft Hyper-V server, vSphere, incl. free vSphere hypervisor, KVM (coming soon)

Supported Software Container Platforms: Docker

Supported IaaS Platforms: OVH vCloud Air,

Switches (optional): Mellanox SX1012, Mellanox SX1024, Dell S4810

Virtual Machine Backup and Replication: Veeam® Backup and Replication™ V9.5

Monitoring, Reporting and Capacity Planning: Veeam® ONE™ V9.5

Management and Security: [StarWind Web Management](#)

Optional: 5nine Management, Microsoft SCVMM, VMware vSphere Operations Management

All Flash

StarWind HCA Model L is the mid-size system for SMB virtualized environments. The starter set begins with just 2 servers and allows flexible scaling to meet any requirements of your business. This can be done by simply adding nodes, drives, RAM, or CPUs. Clusters can also have mixed node configurations to adapt multiple workload requirements. 1U form factor provides maximum compute power in minimum rack space without resorting to proprietary blade and module server systems. The all-flash configuration provides the best capacity-performance ratio. With StarWind ProActive 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 professional team of support engineers.

Model	L-AF 3.2	L-AF 4.8	L-AF 7.2	L-AF 9.6
CPU	Intel Xeon 2x 2620 v4 2.1GHz, 8 Cores, HT	Intel Xeon 2x 2620 v4 2.1GHz, 8 Cores, HT	Intel Xeon 2x 2630 v4 2.2GHz, 10 Cores, HT	Intel Xeon 2x 2640 v4 2.4GHz, 10 Cores, HT
Raw Capacity, TB	4	5.6	8	11.2
Usable Capacity, TB	Depends on required performance and FTT**			
RAID	1, 10, 5, 6;			
RAM	64 GB	96 GB	128GB	128GB
Networking	4x 1 GbE 2x 10 GbE (Private, RDMA-enabled)		4x1 GbE 2x40 GbE (Private, RDMA-enabled)	
Operating Protocols	iSCSI, iSER, SMB3, SMB Direct, NFSv4.1, WVOLS			
ProActive Services	StarWind ProActive Support** Included by default			
Deduplication	Yes, Offline Only			
Compression	Yes			

*Failures to tolerate

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

StarWind HCA Model XL is a high-end virtualization appliance, which provides uncompromised performance for high load virtual server and VDI workloads. The starter set begins with just 2 servers and allows flexible scaling to meet any requirements of your business. This can be done by simply adding nodes, drives, RAM, or CPUs. Clusters can also have mixed node configurations to adapt multiple workload requirements. With StarWind ProActive 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 professional team of support engineers.

Model	XL-AF 12	XL-AF 15.2	XL-AF 19.2	XL-AF 24
CPU	Intel Xeon 2x 2667 v4 3.2GHz, 8 Cores, HT	Intel Xeon 2x 2667 v4 3.2GHz, 8 Cores, HT	Intel Xeon 2x 2683 v4 2.1GHz, 16 Cores, HT	Intel Xeon 2x 2683 v4 2.1GHz, 16 Cores, HT
Raw Capacity, TB	12.8	16	20.8	25.6
Usable Capacity	Depends on required performance and FTT**			
RAID	1, 10, 5, 6;			
RAM	192 GB	256 GB	320 GB	512 GB
Networking	2x1 GbE 2x10 GbE 4x40GbE (Private, RDMA-enabled)			
Operating Protocols	iSCSI, iSER, SMB3, SMB Direct, NFSv4.1, WOLs			
ProActive Services	StarWind ProActive Support** Included by default			
Deduplication	Yes, Offline Only			
Compression	Yes			

*Failures to tolerate

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

Hybrid

StarWind HCA XL-H utilizes automated storage tiering to handle performance intensive workloads in a cost-efficient manner. It provides a healthy balance of performance and cost. These models are built to provide high storage capacity and great performance without having to go all-flash. The starter set packs begins with just 2 servers and allows flexible scaling to meet any requirements of your business. This can be done by simply adding nodes, drives, RAM, or CPUs. Clusters can also have mixed node configurations to adapt multiple workload requirements. With StarWind ProActive 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 professional team of support engineers.

Model	XL-H 11.2	XL-H 16.8	XL-H 22.4	XL-H 28.0
CPU	Intel Xeon 2x 2640 v4 2.4GHz,10 Cores, HT	Intel Xeon 2x 2640 v4 2.4GHz,10 Cores, HT	Intel Xeon 2x 2650 v4 2.2GHz, 12 Cores, HT	Intel Xeon 2x 2660 v4 2.0GHz, 14 Cores, HT
Raw Capacity, TB	16.4	25.6	32.8	40
Usable Capacity	Depends on required performance and FTT**			
RAID	1, 10, 5, 6;			
RAM	128 GB	192 GB	256GB	256GB
Networking	4x 1 GbE 2x 40 GbE (Private, RDMA-enabled)			
Operating Protocols	iSCSI, iSER, SMB3, SMB Direct, NFSv4.1, WOLs			
ProActive Services	StarWind ProActive Support** Included by default			
Deduplication	Yes, Offline Only			
Compression	Yes			

*Failures to tolerate

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

Disk

StarWind HCA Model XL-V is the high capacity option with the best \$/GB value. These models are built to provide high storage capacity and compute power without breaking the bank. The starter set begins with just 2 servers and allows flexible scaling to meet any requirements of your business. This can be done by simply adding nodes, drives, RAM, or CPUs. Clusters can also have mixed node configurations to adapt multiple workload requirements. With StarWind ProActive 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 professional team of support engineers.

Model	XL-V 8	XL-V 16	XL-V 24	XL-V 36	XL-V 48
CPU	Intel Xeon 2x 2620 v4 2.1GHz, 8 Cores, HT	Intel Xeon 2x 2620 v4 2.1GHz, 8 Cores, HT	Intel Xeon 2x 2630 v4 2.2GHz, 10 Cores, HT	Intel Xeon 2x 2650 v4 2.2GHz, 12 Cores, HT	Intel Xeon E5-2650 v4 2.2GHz, 12 Cores, HT
Raw Capacity, TB	16	32	48	72	96
Usable Capacity	Depends on required performance and FTT**				
RAID	1, 10;				
RAM	64 GB	96 GB	128GB	192GB	192GB
Networking	4x 1 GbE 2x10 GbE (Private, RDMA-enabled)				
Operating Protocols	iSCSI, iSER, SMB3, SMB Direct, NFSv4.1, VVOLs				
ProActive Services	StarWind ProActive Support** Included by default				
Deduplication	Yes, Offline Only				
Compression	Yes				

*Failures to tolerate

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