



Value Proposition

For organizations looking to decrease their application downtime but are strangled with limited IT team resources and budgets, our solution is StarWind HyperConverged Appliance (HCA). StarWind HCA is a 100% software-defined hyperconverged platform built with Dell® OEM or StarWind-branded server platform. The burden of configuration, application migration, and integration is completely removed from customer's shoulders – all is done by StarWind engineers at no extra cost.

Furthermore, StarWind HCA is the only solution in the industry offering true HA with just a single physical node. And finally, HCA leads downtime and management efforts to minimum since StarWind ProActive Support monitors the cluster health 24/7/365, predicts failures, and reacts to them before an issue actually happens.

PS: We'll match the price if you manage to build a DIY cluster with the same parts plus services at a lower cost. How? By sharing our partner discounts with you.

Features

- Hybrid Cloud: clustering with active-active data replication between on-premises and AWS, Azure or any other public cloud
- Fault Tolerance, High Availability, Distributed RAM cache, Secure backups, Cloud DR and more
- RDMA: maximize performance and resources available to your applications by eliminating I/O overhead

Benefits

- Zero configuration, migration, and integration efforts – all done by StarWind Engineering Team at no extra cost
- HCA fits even the strictest budgets with a 2-node cluster price tag 2x lower than, say, a Tesla Model 3
- Constant uptime thanks to high fault tolerance rate: a 2-node system keeps on going even if 1 node and 1 disk failed

Supported Hypervisors: Microsoft Hyper-V, VMware vSphere, KVM (*coming soon*)

Supported Operating Systems: Microsoft Windows Server 2012, 2012 R2, 2016

Supported Container Platforms: Docker

Supported Storage Protocols: iSCSI, iSER, SMB3, SMB Direct, NFSv4.1

Supported Storage Management & Integrations: SMI-S, VVOL

Recommended Switches: Mellanox SN2100, 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](#) StarWind Stack (*coming soon*)

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

Certified Refurbished

StarWind and xByte Technologies partner together to provide significant cost savings with their certified refurbished HCA options. This is a perfect fit for those looking to cut their virtualization deployment expenses. The refurbished HCA nodes carry the same warranty and support from our side so neither the warranty nor the quality are sacrificed. Check with your account representative to find out what options are available in your region.



Leighton Broadcasting managed to reduce the downtime from days to several minutes: a year with StarWind HyperConverged Appliance

"You are awesome! StarWind cut the cost of our physical automation system by at least 50% being virtualized"

Tony Abfalter, Director of Engineering/IT, Leighton Broadcasting

All Flash

HCA All-Flash is designed for small and mid-size SMB virtualized environments. All-flash storage configuration provides the best capacity-performance combination. Start with as little as one node and leverage StarWind Hybrid Cloud for HA and failover or get more nodes to build an onsite cluster. 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 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 L

Model	L-AF 3.2	L-AF 4.8	L-AF 8	L-AF 9.6
Chassis configuration	1U 5/10 bays	1U 7/10 bays	1U 6/10 bays	1U 7/10 bays
CPU	Intel Xeon Scalable Family			
	2x Silver 4110 2.1GHz 8C/16T	2x Silver 4110 2.1GHz 8C/16T	2x Silver 4114 2.2GHz 10C/20T	2x Gold 5115 2.4GHz 10C/20T
RAM, GB	64	128	128	128
Usable Capacity, TB	3.2	4.8	8	9.6
Storage	800GB/1.6TB SATA Mix Use SSD			
Dedicated Boot Storage	BOSS RAID1 2x 120GB SSD			
Networking	4x1 GbE 2x10 GbE (Private, RDMA-enabled)		2x1 GbE + 2x10 GbE NDC 2x25 GbE (Private, RDMA-enabled)	
ProActive Services	StarWind ProActive Support** Included by default			
Deduplication and Compression	Yes			

Model XL

Model	XL-AF 12.8	XL-AF 15.2	XL-AF 19.2	XL-AF 24
Chassis configuration	2U 9/24 bays	2U 20/24 bays	2U 13/24 bays	2U 16/24 bays
CPU	Intel Xeon Scalable Family			
	2x Gold 6134 3.2GHz 8C/16T	2x Gold 6134 3.2GHz 8C/16T	2x Gold 6130 2.1GHz 16C/32T	2x Gold 6130 2.1GHz 16C/32T
RAM, GB	192	256	320	512
Usable Capacity, TB	12.8	15.2	19.2	24
Storage	800GB/1.6TB SATA Mix Use SSD			
Dedicated Boot Storage	BOSS RAID1 2x 120GB SSD			
Networking	2x1 GbE + 2x10 GbE NDC 2x25 GbE (Private, RDMA-enabled)			
ProActive Services	StarWind ProActive Support** Included by default			
Deduplication and Compression	Yes			

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

Hybrid

HCA Hybrid utilizes automated storage tiering to handle performance-intensive workloads in a cost-efficient manner. It provides a healthy balance between performance and cost. These models are built to deliver high storage capacity and great performance without having to go all-flash. Start with as little as one node and leverage StarWind Hybrid Cloud for HA and failover or get more nodes to build an onsite cluster. 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 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 L

Model XL

Model Name	L-H 5.6	XL-H 8.8	XL-H 11.8	XL-H 17.7	XL-H 24	XL-H 35.2
Chassis Configuration	1U 4/4 bays	2U 10/14 bays	2U 9/14 bays	2U 13/14 bays	2U 14/14 bays	2U 20/20 bays
CPU	Intel Xeon Scalable Family					
	2x Silver 4110 2.1G 8C/16T	2x Silver 4110 2.1G 8C/16T	2x Silver 4114 2.2G 10C/20T	2x Silver 4116 2.1G 12C/24T	2x Silver 4116 2.1G 12C/24T	2x Gold 5120 2.2G 14C/28T
RAM, GB	96	128	128	256	256	512
Usable Capacity, TB	5.6	8.8	11.8	17.7	24.0	35.2
Storage	2TB / 4TB 7.2K NLSAS 960 GB / 1.6 TB SSD SATA Mix Use					
Dedicated Boot Storage	BOSS RAID1 2x 120GB SSD					
Networking	2x1 + 2x10 GbE	2x1 + 2x10 GbE 2x25 GbE (Private, RDMA-enabled)				
ProActive Services	StarWind ProActive Support** Included by default					
Deduplication and Compression	Yes					

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Disk

HCA xD is the high-capacity option with the best \$/GB value. These models are built to provide high storage capacity and moderate compute power for capacity-hungry applications. Start with as little as one node and leverage StarWind Hybrid Cloud for HA and failover or get more nodes to build an onsite cluster. 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 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 L

Model XL

Model Name	L-4D	XL-8D	XL-16D	XL-24D	XL-32D	XL-48D
Chassis Configuration	1U 4/4 bays	2U 8/12 bays	2U 8/12 bays	2U 12/12 bays	2U 8/12 bays	2U 12/12 bays
CPU	Intel Xeon Scalable Family					
	2x Bronze 3106 1.7G 8C/8T	2x Silver 4110 2.1G 8C/16T	2x Silver 4110 2.1G 8C/16T	2x Silver 4114 2.2G 10C/20T	2x Silver 4116 2.1G 12C/24T	2x Gold 5118 2.3G 12C/24T
RAM, GB	32	64	96	128	128	192
Usable Capacity, TB	4	8	16	24	36	48
Storage	2TB 7.2K NLSAS		4TB 7.2K NLSAS		8TB 7.2K NLSAS	
Dedicated Boot Storage	BOSS, 1x 120GB SSD					
Networking	2x1 GbE (LOM) 4x1 GbE	4x1 GbE 2x10 GbE (Private)				
ProActive Services	StarWind ProActive Support** Included by default					
Deduplication and Compression	Yes					

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