

Product Specification

# VSP One File Specification

	VSP One File Model 32	VSP One File Model 34	VSP One File Model 38
Max Nodes per Cluster	2	4	8
Rack Height per Node		3U	
Motherboard Memory		64GB	
FPGA Board Memory	96/16GB NV		80/32GB NV
Cooling Fans		2 – Hot Swap	
Power Supplies		2 – Hot Swap	
Switch Connectivity for Client Access per Node <sup>1</sup>	Up to 6 x 10GbE	Up to 8 x 10GbE or 25GbE	Up to 8 x 10GbE or 25GbE Up to 2 x 100GbE
Interconnect Ports per Node	4 x 10GbE		4 x 10/25GbE
FC Storage Ports	4 x 16GB FC		4 x 32GB FC
Max SD/LUNs per Cluster		512	
Max LUN size		64TB	
Max Addressable Capacity	16PB	16PB	32PB
Max Storage Pool Size		1PB	
Max File Systems per Pool		32	
Max File Systems per Cluster		500	
Max Files per File System		130 billion	
Max File System Size		1PB	
Max Files per Folder		16M	
Max Snapshots per File System		1024	
Max Virtual Volumes per Cluster		100,000	
Max EVS per Cluster		64	
Max CIFS names per EVS		256	
Max TCP Connections per Node		64,000	
Max. IP Addresses		256 (32 per EVS)	
Max VLANs per Cluster		256 (VLAN ID 1-4094)	
Max. Mount Points (Shares and Exports)		20,000 shares, 10,000 exports.	
Protocol Supports		SMB, NFS, FTP, iSCSI, S3 (to the Cloud)	
Max Mount Points		20,000 Shares / 10,000 Exports	
Max Concurrent FTP Sessions		10,000	
Max. Concurrent Open Files per Node: SMB		1.5M	
Max. Concurrent Open Files per Node: NFSv3		Not Applicable/No Limit	
Max. Concurrent FTP Sessions		10000	
SMB/NFS File Name Length		255 Characters	
SMB Path Name Length		65,535 Characters	
NFS Path Name Length		1024 Characters	
iSCSI Targets per EVS		32	
iSCSI LUNs per Target		32	
iSCSI Sessions per Target		64	

## VSP One File Specification

	VSP One File Model 32	VSP One File Model 34	VSP One File Model 38
iSCSI LUN Size		256TB	
Random I/O: per Node	87,500	125,000	200,000
Throughput: MB/sec (Read) per Node	3,400	6,000	8,500
Throughput: MB/sec (Write) per Node	1,300	1,900	2,700
Throughput: MB/sec (mixed workloads 70/30 read/write) per Node	3,400	4,500	6,500
Voltage Range (Ave/Max)	100 VAC – 2.1/2.6A 110 VAC – 1.9/2.4A 200 VAC – 1.0/1.3A 208 VAC – 1.0/1.3A 230 VAC – 0.9/1.2		100 VAC – 3.4/4.1A 110 VAC – 3.0/3.6A 200 VAC – 1.6/1.9A 208 VAC – 1.5/1.8A 230 VAC – 1.4/1.7A
Power Supply Rating	495W		495W
Average Thermal (BTU/hour)	710		1160
Max. Thermal (BTU/hour)	887		1400
Max. Power Usage	260W		410W
Height/Width/Depth	3U, 5.2 in. (132mm)/17.3 in. (440mm)/28.6 in. (725mm)		3U, 5.2 in. (132mm)/17.3 in. (440mm)/28.6 in. (725mm)
Weight	51 lbs. (23kg)		51 lbs. (23kg)

<sup>1</sup> Port connectivity schema is detailed in the Hitachi VSP One File and NAS Platform - ICC Network Switch Reference Guide, MK-92HNAS102

### About Hitachi Vantara

Hitachi Vantara, a Hitachi, Ltd. subsidiary, is the data foundation for innovation. We build resilient data storage and infrastructure the world's innovators rely on.



**Corporate Headquarters**  
2535 Augustine Drive  
Santa Clara, CA 95054 USA  
[hitachivantara.com](http://hitachivantara.com) | [community.hitachivantara.com](http://community.hitachivantara.com)

**Contact Information**  
USA: 1-800-446-0744  
Global: 1-858-547-4526  
[hitachivantara.com/contact](http://hitachivantara.com/contact)

© Hitachi Vantara LLC 2024. All Rights Reserved. HITACHI and Pentaho are trademarks or registered trademarks of Hitachi, Ltd. All other trademarks, service marks and company names are properties of their respective owners.

HV-BTD-PS-Vsp-One-File-Specification-17Oct24-B