

Product Specification

# Hitachi NAS 5000 Specification

	Hitachi NAS 5200	Hitachi NAS 5300
Max Nodes per Cluster	4	8
Rack Height per Node	3U	
Motherboard Memory	64GB	
FPGA Board Memory	96/16GB NV	
Cooling Fans	2 – Hot Swap	
Power Supplies	2 – Hot Swap	
Switch Connectivity for Client Access per Node <sup>1</sup>	6 x 10GbE	
Interconnect Ports per Node	4 x 10GbE	
FC Storage Ports	4 x 16GB FC	
Max SD/LUNs per Cluster	512	
Max LUN size	64TB	
Max Addressable Capacity	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	
iSCSI LUN Size	256TB	

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Random I/O: per Node	87,500	125,000
Throughput: MB/sec (Read) per Node	3,400	4,800
Throughput: MB/sec (Write) per Node	1,300	1,800
Throughput: MB/sec (mixed workloads 70/30 read/write) per Node	3,400	3,700
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 – 0.9/1.2A	
Power Supply Rating	495W	
Average Thermal (BTU/hour)	710	
Max. Thermal (BTU/hour)	887	
Max. Power Usage	260W	
Height/Width/Depth	3U, 5.2 in. (132mm)/17.3 in. (440mm)/28.6 in. (725mm)	
Weight	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.



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