Hitachi Virtual Storage Platform One Block (VSP One Block) Storage Portfolio

	VSP One Block 24	VSP One Block 24 QLC	VSP One Block 26	VSP One Block 26 QLC	VSP One Block 28	VSP One Block 28 QLC	VSP One Block 85 TLC
Performance and Capacity Specifications							
Performance (IOPS)	4.7M IOPS		6.5M IOPS		10.1M IOPS		50M IOPS
Max. Raw Internal Capacity	4.33PB / 3.84PiB (72 x 60.2TB SSD)					3.97PB / 3.52PiB (66 x 60.2TB SSD)	17.33PB / 15.39PiB (288 x 60.2TB SSD)
Data Reduction[1]	2:1		4:1				
Effective Capacity[2]	5.0PBe / 4.39PiBe		9.1PBe / 8.04PiBe		14.1PBe / 12.5PiBe		18.68PBe / 16.6PiBe
Data Encryption	Data at Rest						Data at Rest and Data in Flight [3]
Max. Number of Drives (including spares)	72 SFF NVMe SSD					66 SFF NVMe SSD	288 SFF NVMe SSD
Drive Types	60TB NVMe TLC SSD 30TB NVMe TLC SSD 15TB NVMe TLC SSD 7.6TB NVMe TLC SSD 3.8TB NVMe TLC SSD 1.9TB NVMe TLC SSD	60TB NVMe QLC SSD 30TB NVMe QLC SSD 15TB NVMe QLC SSD	60TB NVMe TLC SSD 30TB NVMe TLC SSD 15TB NVMe TLC SSD 7.6TB NVMe TLC SSD 3.8TB NVMe TLC SSD 1.9TB NVMe TLC SSD	60TB NVMe QLC SSD 30TB NVMe QLC SSD 15TB NVMe QLC SSD	60TB NVMe TLC SSD 30TB NVMe TLC SSD 15TB NVMe TLC SSD 7.6TB NVMe TLC SSD 3.8TB NVMe TLC SSD 1.9TB NVMe TLC SSD	60TB NVMe QLC SSD 30TB NVMe QLC SSD 15TB NVMe QLC SSD	Sold in Packages of 4 Drives: 60TB NVMe TLC SSD 30TB NVMe TLC SSD 15TB NVMe TLC SSD 7.6TB NVMe TLC SSD 3.8TB NVMe TLC SSD
Max. Flash Media Trays	2 x 2U 24 SFF Drive Chassis						3 x 8U 96 SFF Drive Chassis
Hardware Specifications							
No. of Controller Blocks	N/A						1, 2, 3
Nodes Per System	1						2, 4, 6
No. of Controllers Per System	2						4 ,8, 12
Max Cache	256GiB		768GiB		1TiB		2 TiB, 4 TiB, 6TiB
Hitachi Accelerated Fabric	N/A						4 x Node Interconnect Switch
Controller Interconnectivity	CPU Non-Transparent Bridge via Redundant PCIe						8, 16, 24x Fabric Acceleration Modules Over Quad-Redundant PCIe
Node Dimensions: **Height** **Width** **Depth**	2U, 3.5” (87mm H) 19.0” (482mm W) 33.6” (852mm D)						4U, 6.9” (174mm) 17.6” (446mm) 30.1” (763mm)
Max. Weight per Node	247.79 lbs (112.44kg)		248.46 lbs (112.70kg)		249.03 lbs (112.96kg)		276.32 lbs (125.34kg)

Hitachi Virtual Storage Platform One Block (VSP One Block) Storage Portfolio (cont.)

	VSP One Block 24	VSP One Block 24 QLC	VSP One Block 26	VSP One Block 26 QLC	VSP One Block 28	VSP One Block 28 QLC	VSP One Block 85 TLC
Hardware Specifications (cont.)							
Host Interface Types	FC-NVMe: 32Gb/s FC-NVMe: 64Gb/s FC: 16Gb/s FC: 32Gb/s FC: 64Gb/s iSCSI: 10Gb/s iSCSI: 25Gb/s NVMe/TCP: 100Gb/s						FC-NVMe: 32Gb/s FC-NVMe: 64Gb/s FC: 32Gb/s FC: 64Gb/s iSCSI: 10Gb/s iSCSI: 25Gb/s NVMe/TCP: 100Gb/s IBM® FICON®: 32Gb/s IBM FICON (IFCES compliant): 32Gb/s
Max. Host Port Count	32 x FC 16 x iSCSI 8 x NVMe/TCP						192 x FC-NVMe 192 x FC 192 x FICON 96 x iSCSI 96 x NVMe/TCP
Drive Protection Supported	Dynamic Drive Protection (DDP) Dual Parity Protection Scheme (6D+2P, 14D+2P) Single Parity Protection Scheme (3D+1P)						RAID-1 (2D+2D) RAID-5 (3D+1P/7D+1P) RAID-6 (6D+2P/14D+2P)
Max LUN Size	256TiB						
Max. Number of LUNs (includes virtualized)	16,384		32,768		49,152		21,753 [4]
Max. Number of Snapshots	1,024 per LUN; 1,048,575 per system						
Max. Number of Hosts per Fibre Channel Port	255						
Max. Systems per VSSO Cluster	65						
Max. VSSO Clusters One Node May Participate	15 [5]						
Security Features and Certification	Data-at-Rest Encryption Hardware Root of Trust TLS 1.3, 1.2 Secure Firmware Update FIPS 140-3 Level 1 Certified Common Criteria (ND cPP)[9] ENERGY STAR® Certified [6]						Data-at-Rest Encryption Hardware Root of Trust TLS 1.3, 1.2 Secure Firmware Update FIPS 140-3 Level 2[9] Common Criteria (ND cPP)[9]

Product Specifications

Hitachi Virtual Storage Platform One Block (VSP One Block) Storage Portfolio (cont.)

	VSP One Block 24	VSP One Block 24 QLC	VSP One Block 26	VSP One Block 26 QLC	VSP One Block 28	VSP One Block 28 QLC	VSP One Block 85 TLC
Software Specification							
Guarantees and SLAs	Cyber Resilience Guarantee Sustainability SLA Guarantee Performance SLA Guarantee 100% Data Availability Guarantee Effective Capacity Guarantee Modern Storage Assurance						Cyber Resilience Guarantee [7] Sustainability SLA Guarantee Performance SLA Guarantee 100% Data Availability Guarantee Effective Capacity Guarantee [7] Modern Storage Assurance [7]
Value-Added Features	Storage Virtualization Snapshot and Clone Remote Replication Hitachi Virtual Storage Platform 360 (VSP 360) Copy Management VSP 360 Infrastructure Analytics Non-Disruptive Migration Global-Active Device Virtual Storage Scale Out Cyber Resiliency [8] Data-in-Place Upgrades						
Mainframe Value-Added Features	N/A						Eight 9s Availability (single system, not dependent on IBM GDPS®)

[1] Guaranteed data reduction ratios are used for system sizing. Depending on workload and data characteristics, your reduction ratios may be higher or lower than Hitachi 4:1 guarantees. To learn more, visit: Customer Guarantees | Data Infrastructure Management | Hitachi Vantara

[2] All VSP One Block systems are capable of virtualizing external storage.

[3] Data-in-flight encryption supported only for FICON.

[4] Based on DRS volume configuration.

[5] 15 non-meta virtual storage machines (VSMs) per node shared with nondisruptive migration (NDM) and global-active device (GAD) uses of VSMs.

[6] VSP One Block 24, 26, 28

[7] Guarantee applies to open systems.

[8] Powered by CyberSense* (added cost).

[9] In process.

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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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