

Product Specification

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

	VSP One Block 24	VSP One Block 26	VSP One Block 28	VSP One Block 24 QLC	VSP One Block 26 QLC	VSP One Block 28 QLC
Capacity Specifications						
Max. Effective Capacity*	5.0PBe / 4505TiBe	9.1PBe / 8243TiBe	14.1PBe / 12800TiBe	5.0PBe / 4505TiBe	9.1PBe/8243TiBe	14.1PBe / 12800TiBe
Max. Raw Capacity	4.32PB (72x60TB SSD)					3.96PB (66x60TB SSD)
Effective Capacity Guarantee Ratio	2:1**	4:1**		2:1**	4:1**	
Max. Number of Drives, Including Spares	72 NVMe					66 NVMe
Drive Options	60TB NVMe SSD 30TB NVMe SSD 15TB NVMe SSD 7.6TB NVMe SSD 3.8TB NVMe SSD 1.9TB NVMe SSD			60TB NVMe QLC SSD 30TB NVMe QLC SSD 15TB NVMe QLC SSD		
Max. Expansion Drive Trays	2 (2U 24 SFF Drive Tray)					
Controller Tray Specifications						
Memory	256GiB	768GiB	1024GiB	256GiB	768GiB	1024GiB
Max. Host Port Counts	32 x FC 16 x iSCSI 8 x TCP					
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 TCP: 100Gb/s					
Height, Width, Depth (Controller)	2U, 3.5" (87mm H) 19.0" (482mm W) 33.6" (852mm D)					
Software Specifications						
Value-Added Bundled Features	100% Data Availability Guarantee No Questions Asked Effective Capacity Guarantee* Storage Virtualization Embedded Management In-System Replication Copy Data Management Infrastructure Analytics Nondisruptive Migration¹ Immutable Snapshots					
Drive Protection Supported	Dynamic Drive Protection (DDP) Dual Parity Protection Scheme (6D+2P, 14D+2P) Single Parity Protection Scheme (3D+1P)					
Max. LUN Size	256TB					
Max. Number of LUNs (Includes Virtualized)	16,384	32,768	49,152	16,384	32,768	49,152

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Software Specifications (Continued)						
Max. Number of Snapshots	1,024 per LUN; 1,048,575 per system					
Max. Number of Hosts per Fibre Channel Port	255					
Security Features and Certification	Data-at-Rest Encryption Hardware Root of Trust TLS 1.3 support by default. TLS 1.2 can be optionally enabled. Secure Firmware Update FIPS Certified (140-3 Level 1) Common Criteria Certification (in process)					
Capacity Specifications						
Max. Controller Nodes per VSSO Cluster	65					
Max. VSSO Clusters One Node May Participate	15 ²					
Max. Cache (Without Intermix)	16,640GiB	49,920GiB	66,560GiB	16,640GiB	49,920GiB	66,560GiB
ENERGY STAR® Certified	 Yes					

* All VSP One Block systems are capable of virtualizing external storage.

** 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's 2:1 and 4:1 guarantees. To learn more visit: [Customer Guarantees](#) | [Data Infrastructure Management](#) | [Hitachi Vantara](#).

1MB = 1,000,000 bytes

1MiB = 1,048,576 bytes

NDM = nondisruptive migration

NVMe = non-volatile memory express

SFF = small form factor

SSD = solid state drive

FC = Fibre Channel

iSCSI = Internet Small Computer Systems Interface

FIPS = Federal Information Protection Standard

TLS = Transport Layer Security

VSSO = virtual storage scale out

¹ Using Global-Active Device (GAD)

² 15 non-meta virtual storage machines (VSMs) per node shared with NDM and GAD uses of VSMs.

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.

Hitachi Vantara

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HV-BTD-PS-VSP-One-Block-Specifications-14Aug25-B