



SPC BENCHMARK 1™

EXECUTIVE SUMMARY

HUAWEI TECHNOLOGIES CO., LTD HUAWEI OCEANSTOR 5600 V5

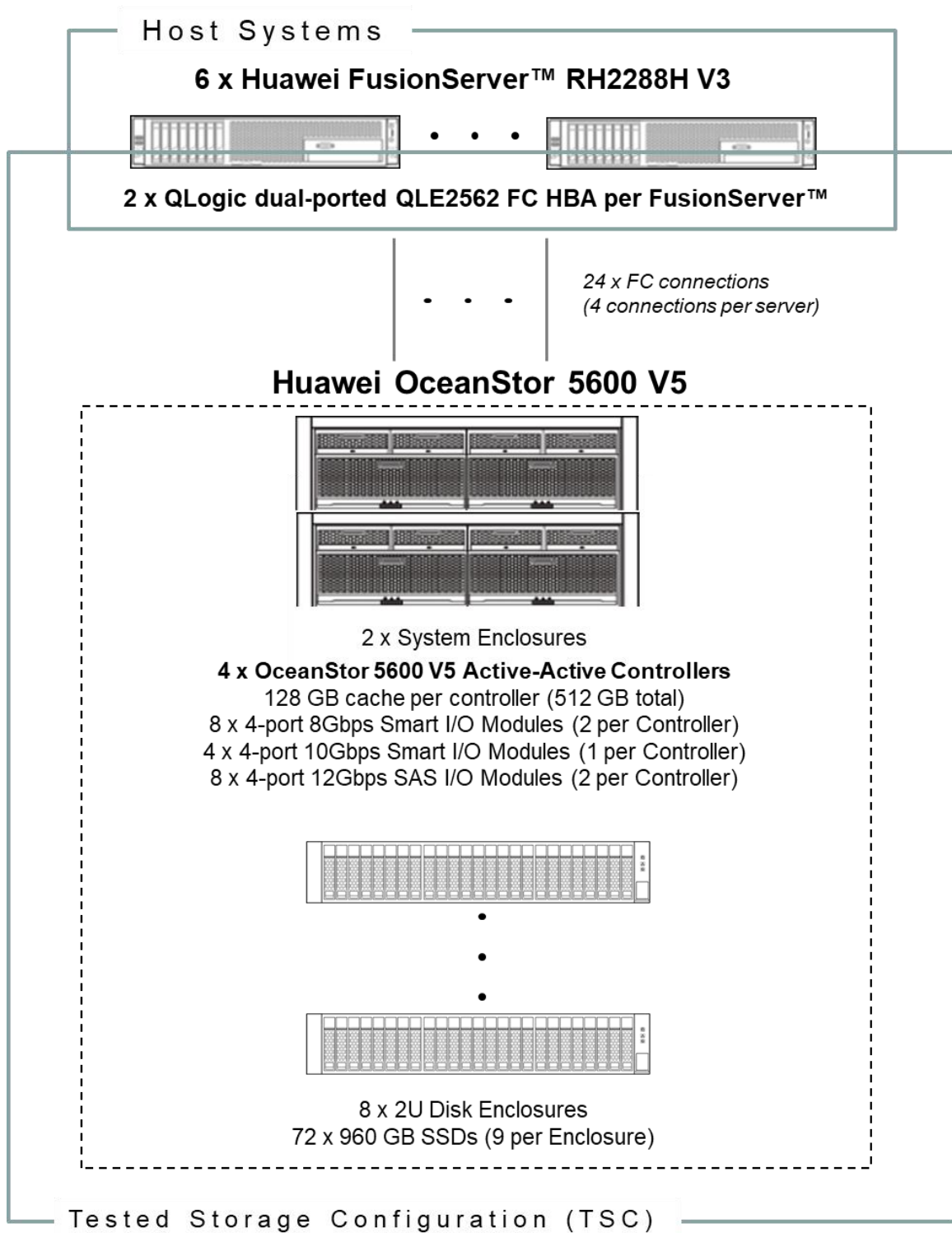
SPC-1 IOPS™	1,100,252
SPC-1 Price-Performance™	\$405.39/SPC-1 KIOPS™
SPC-1 IOPS™ Response Time	0.710 ms
SPC-1 Overall Response Time	0.445 ms
SPC-1 ASU Capacity	26,124 GB
SPC-1 ASU Price	\$17.08/GB
SPC-1 Total System Price	\$446,024.48
Data Protection Level	Protected 2 (RAID-10 and full redundancy)
Physical Storage Capacity	69,120 GB
Pricing Currency / Target Country	U.S. Dollars / USA

SPC-1 V3.8

SUBMISSION IDENTIFIER: A31020

SUBMITTED FOR REVIEW: DECEMBER 27, 2018

Benchmark Configuration Diagram



Tested Storage Product Description

The new generation of mid-range hybrid flash storage, dedicated to providing the reliable and efficient data services for enterprises.

Cloud-ready operating system, flash-enabled performance, and intelligent management software, delivering top-of-the-line functionality, performance, efficiency, reliability, and ease of use.

Satisfies the data storage requirements of large-database OLTP/OLAP, cloud computing, and many other applications, making it a perfect choice for sectors such as government, finance, telecommunications, and manufacturing.

For more details, visit:

<http://e.huawei.com/en/products/cloud-computing-dc/storage/massive-storage/5300-5500-5600-5800-v5>

Priced Storage Configuration Components

12 x QLogic dual-ported QLE2562 FC HBA
2 x System enclosures, each with: <ul style="list-style-type: none">2 x OceanStor 5600 V5 Active-Active Controllers (4 total), each with:<ul style="list-style-type: none">128 GB cache (512 GB total)2 x 4-port 8Gbps Smart I/O Modules (8 total)1 x 4-port 10Gbps Smart I/O Modules (4 total)2 x 4-port 12Gbps SAS I/O Modules (8 total)
8 x 2U Disk enclosures, each with: <ul style="list-style-type: none">9 x 960 GB SSDs (72 total)

Storage Configuration Pricing

	Description	Qty	Unit Price	Ext. Price	Disc.	Disc. Price
Hardware & Software						
02351LWK 56V5-256G-AC2	OceanStor 5600 V5 Engine(3U,Dual Controller,AC\240HVDC,256GB Cache,SPE63C0300)	2	116,820.00	233,640.00	68%	74,764.80
SMARTIO10ETH	4 port SmartIO I/O module(SFP+,10Gb Eth/FCoE(VN2VF)/Scale-out)	4	6,288.00	25,152.00	68%	8,048.64
SMARTIO8FC	4 port SmartIO I/O module(SFP+,8Gb FC)	8	3,192.00	25,536.00	68%	8,171.52
LPU4S12V3	4 port 4*12Gb SAS I/O module(MiniSAS HD)	8	4,963.00	39,704.00	68%	12,705.28
HSSD-960G2S-A9	960GB SSD SAS Disk Unit(2.5")	72	10,176.00	732,672.00	70%	219,801.60
DAE52525U2-AC-A2	Disk Enclosure(2U,AC\240HVDC,2.5",Expanding Module,25 Disk Slots,without Disk Unit,DAE52525U2)	8	10,584.00	84,672.00	68%	27,095.04
N8GHBA000	QLOGIC QLE2562 HBA Card,PCIE,8Gbps DualPort ,Fiber Channel Multimode LC Optic Interface,English Manual, No Drive CD	12	1,698.00	20,376.00	0%	20,376.00
SN2F01FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,3m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	24	14.00	336.00	0%	336.00
LIC-56V5-BS	Basic Software License(Including DeviceManager,SmartThin,SmartMulti-tenant,SmartMigration,SmartErase,SmartMotion, SystemReporter,eService,SmartQuota,NFS,CIFS, NDMP)	1	9,852.00	9,852.00	70%	2,955.60
Hardware & Software Subtotal						374,254.48
Support & Maintenance						
02351LWK-88134ULF-36	OceanStor 5600 V5 Engine(3U,Dual Controller,AC\240HVDC,256GB Cache,SPE63C0300&4*Disk Enclosure-2U,AC\240HVDC,2.5",DAE52525U2&36*960GB SSD SAS Disk Unit(2.5"))-Hi-Care Onsite Premier 24x7x4H Engineer Onsite Service-36Month(s)	2	29,292.00	58,584.00	0%	58,584.00
88034JNY-88134UHK-36	Basic Software License(Including DeviceManager,SmartThin,SmartMulti-tenant,SmartMigration,SmartErase,SmartMotion, SystemReporter,eService,SmartQuota,NFS,CIFS, NDMP)-Hi-Care Application Software Upgrade Support Service-36Month(s)	1	2,919.00	2,919.00	0%	2,919.00
8812153244	OceanStor 5600 V5 Installation Service - Engineering	1	10,267.00	10,267.00	0%	10,267.00
Support & Maintenance Subtotal						71,770.00
SPC-1 Total System Price						446,024.48
SPC-1 IOPS™						1,100,252
SPC-1 Price-Performance™ (\$/SPC-1 KIOPS™)						405.39
SPC-1 ASU Capacity (GB)						26,124
SPC-1 ASU Price (\$/GB)						17.08

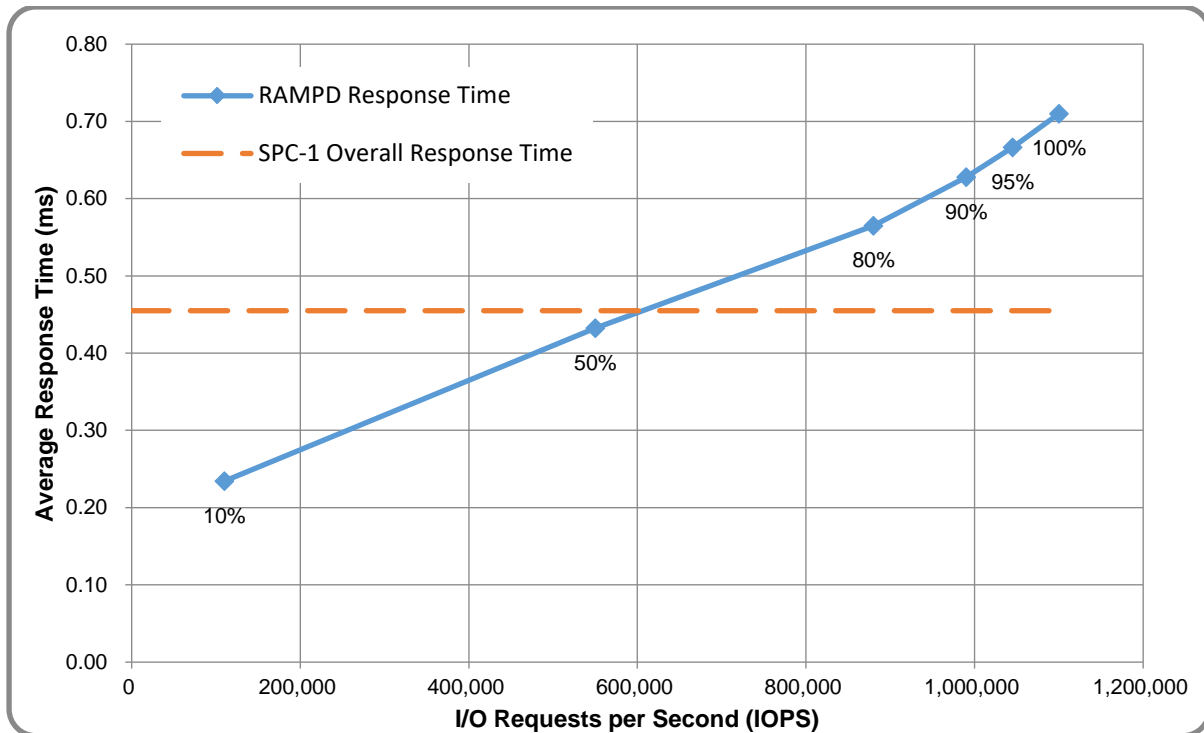
Third-Party Reseller: Huawei Technologies Co., Ltd. only sells its products to third-party resellers who, in turn, sell those products to U.S. customers. The above reflects the pricing quoted by one of those third-party resellers. See Appendix B of the Full Disclosure Report for a copy of the third-party reseller's quotation.

Discount Details: The discounts shown are based on the storage capacity purchased and are generally available.

Warranty: Hi-Care Premier On-Site Service include: 7x24 Technical Assistance Center Access. Access to all new software updates and Online Support. 24x7 with 4-hour On-site Hardware Replacement.

Availability Date: Currently available.

Response Time and Throughput Graph



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Revision Information	
SPC Benchmark 1™ Revision	V3.8.0
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