

# Violin Flash Storage Platform 7300 with Concerto OS 7 Enterprise Data Services

## Highlights

### Enterprise Data Services

- Remote Asynchronous Replication
- Flexible near-zero RPO and RTO
- Thin or Thick Clones
- Application and Crash Consistent Snapshots
- Thin Provisioning
- Managed by Symphony™ 3

### Data Reduction

- Granular Inline Block Deduplication
- Granular Inline Block Compression

### Features

- Up to 70 TB raw, 217 TB effective
- 16 Gb/s Fibre Channel
- 10 Gb/s iSCSI
- Can be operated as stand-alone array or as a shelf in FSP 7700
- Pay-as-you-Grow capacity licensing for non-disruptive growth



Transform your primary storage and data center economics with Violin's Flash Storage Platform™ 7300 and 7300E. Upgrade your primary storage with enterprise data services, consistent performance, and manageability to achieve new levels of data center consolidation at the cost of legacy disk.

The Flash Storage Platform (FSP) 7300/7300E powered by Concerto OS 7 delivers a rich suite of Enterprise Data Services for a comprehensive solution that transforms your data center with the performance and capabilities of enterprise-class primary storage. The FSP 7300/7300E consists of high performance storage that enables business continuity, data protection, data scalability, and data efficiency. Violin's Enterprise Data Services deliver several benefits:

- Data reduction including switchable inline data deduplication and compression for savings up to 10:1 for suitable applications
- Flexible and powerful business continuity with asynchronous replication
- Clones and mirroring protect valuable enterprise data
- Data scaling is simple with Scale Smart™
- Configuration choice as a stand-alone storage array, or as a shelf in the FSP 7700
- Simple Setup for quick and easy configuration
- Performance that is transformative with capabilities built for demanding enterprise environments enabling high levels of data center consolidation

### Enterprise Data Services Solution

The FSP 7300/7300E embeds Concerto OS 7 Enterprise Data Services with capabilities that are both highly functional and economic. The FSP 7300/7300E is an optimized solution that delivers powerful data services with excellent manageability, performance, and cost attributes.

You can deploy the 7300/7300E FSP as a self-contained SAN connected all-flash array or as a storage shelf in the 7700 FSP for increased scale and business continuity. Concerto OS 7's granular management provides administrators flexibility to respond to unique enterprise requirements. Concerto OS 7 features a data reduction dashboard that shows the actual data reduction rate and with the ability to enable or disable deduplication on a given LUN as appropriate. The degree of control available with Concerto OS 7 makes the FSP the safe choice for primary storage choice in the enterprise data center.

The benefits of the FSP include lower data center TCO, improved application support, reduced management, and consistent end-user SLAs. CFOs will like the FSP for its reduced TCO. CIOs will like it as it frees resources to create new business value. Storage admins will like it as it simplifies data center management. The leader for the all-flash data center is Violin Memory. Violin Memory means Business in a Flash.

To learn more about how Violin's Flash Storage Platform 7300/7300E can transform your primary storage and data center economics, please contact your Violin Memory representative or visit us at <http://www.violin-memory.com>

Features	Flash Storage Platform 7300E				Flash Storage Platform 7300	
Model	7300E-10	7300E-17	7300E-26	7300E-35	7300-52	7300-70
Raw Capacity (TiB/TB)	10.2 TiB/10.9 TB	16.3 TiB/17.5 TB	24.5 TiB/26.3 TB	32.7 TiB/35.1 TB	49.1 TiB/52.7 TB	65.5 TiB/70.3 TB
Maximum Usable Capacity (TiB/TB)	6.3 TiB/6.9 TB	10.0 TiB/11.0 TB	15.1 TiB/16.6 TB	20.1 TiB/22.1 TB	30.2 TiB/33.2 TB	40.3 TiB/44.3 TB
Effective Capacity after data reduction with suitable workload 6:1 reduction	31.5 TiB/34.6 TB	54.0 TiB/59.4 TB	84.0 TiB/92.4 TB	116.7 TiB/125.4 TB	178.2 TiB/191.3 TB	202.5 TiB/217.5 TB
<b>Performance</b>						
Max Throughput	580,000 IOPS				1,000,000 IOPS	
Max Bandwidth	2.3 GB/sec				4.4 GB/sec	
Min Latency	0.150 ms				0.150 ms	
Sustained Performance (data reduction off, 70/30 R/W)	430,000 IOPS with 1 ms latency				750,000 IOPS with 1 ms latency	
Sustained Performance (data reduction on)	200,000 IOPS with 1 ms latency				250,000 IOPS with 1 ms latency	
<b>Dimensions</b>						
Height	3 RU				3 RU	
Depth	28"/711 mm				28"/711 mm	
Width	17.5"/445 mm				17.5"/445 mm	
Weight	82.5 lbs/ 37.4 kg				93.5 lbs/ 42.4 kg	
Power*	1056 W				1600 W	
Cooling*	3603 BTU/hr				5463 BTU/hr	
<b>Environmentals</b>						
Operating Temperature Range	10 to 35 °C (50 to 95 °F)					
Non-Operating Temp. Range	-40 to 70 °C (-40 to 158 °F)					
Humidity Range	8 to 90% (non-condensing)					
Non-Operating Humidity Range	5 to 95% (non-condensing)					
<b>Ecosystem</b>						
Connectivity	8x16Gb Fibre Channel or 8x10 GbE and 2x40 GbE (replication only)					
Certifications	VMware VAAI support for Concerto OS 7					
Management Interfaces	2x 10/100/1000 Mbits/sec auto-sensing Ethernet ports (RJ-45) Serial (RS-232) console port for management and troubleshooting					
Reliability / Resiliency	Supports Non Disruptive Updates of FW and SW, no single point of failure					
Supported OS software	Concerto OS 7					
Management	Violin Symphony, CLI: serial, SSH-SNMP, Web GUI, REST XML API					
Regulatory	Safety: IEC/EN 60950, CB Certificate, UL60950-1 CAN/CSA-C22.2 No.60950-1, CE Mark Emissions Class A: EN55022/CISPR 22, FCC Part 15 Class A, ICES-003 Issue 5 Class A, VCCI Class A, AS/NZS CISPR22:2009 Class A BSMI CNS 13438 Class A, Korea RRA Notice No. 2012-13 Class A Immunity: EN55024, EN 61000-4-2,3,4,5,6,8,11 Korea RRA Notice No. 2012-14 RoHS 2011/65/EU For a full list of specific country approvals, please contact Violin Memory in your country					

\*Nominal power measurements for Fibre Channel configuration

Violin Memory, Inc. | 4555 Great America Parkway, Santa Clara, CA 95054 USA

Tel: 1-650-396-1500 • Fax: 1-650-396-1543 | www.violin-memory.com

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