

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

Highlights

Enterprise Data Services

- Granular Inline Block Deduplication
- Granular Inline Block Compression
- Remote Asynchronous Replication
- Continuous Data Protection
- Flexible near-zero RPO and RTO
- Thin or Thick Clones
- Application and Crash Consistent Snapshots
- Thin Provisioning
- Managed by Symphony 3

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 7700 FSP
- Pay-as-you-Grow capacity licensing for non-disruptive growth



Transform your primary storage and data center economics with Violin's 7300 and 7300E Flash Storage Platform™. 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 7300/7300E Flash Storage Platform (FSP) 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 your enterprise-class primary storage requires. The 7300/7300E FSP consists of high performance storage with embedded Enterprise Data Services including business continuity, data protection, data scalability, and data efficiency. Violin's Enterprise Data Services deliver several benefits:

- Data reduction including advanced 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 pay-as-you-grow capacity licensing for low risk, non-disruptive growth
- Configuration choice as a stand-alone storage array, or as a shelf in the 7700 FSP
- Performance that is transformative with capabilities built for demanding enterprise environments enabling high levels of data center consolidation

Enterprise Data Services Solution

The 7300/7300E FSP embeds Concerto OS 7 Enterprise Data Services with capabilities that are both highly functional and economic. The 7300/7300E FSP 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 continuance capabilities. Concerto OS 7's granular management provides administrators flexibility to respond to unique enterprise requirements. Concerto OS 7 features a deduplication dashboard that shows the actual deduplication rate and with the ability to disable deduplication if it is proving ineffective on a given LUN. 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 7300 Flash Storage Platform 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	7300E Flash Storage Platform				7300 Flash Storage Platform	
Model	7300E-10	7300E-17	7300E-26	7300E-35	7300-52	7300-70
Raw Capacity (TiB/TB)	10 TiB/10.5 TB	16 TiB/17.5 TB	24 TiB/26 TB	32 TiB/35 TB	48 TiB/52.5 TB	64 TiB/70 TB
Maximum Usable Capacity (TiB/TB)	6.5 TiB/7 TB	10.5 TiB/11 TB	15.5 TiB/16.5 TB	20.5 TiB/22 TB	31 TiB/33 TB	41 TiB/44 TB
Effective Capacity after data reduction with suitable workload 6:1 reduction	31 TiB/34 TB	54 TiB/59 TB	84 TiB/92 TB	114 TiB/125 TB	173 TiB/191 TB	197 TiB/217 TB
Max Throughput*	580,000 IOPS				1,000,000 IOPS	
Max Bandwidth*	2.3 GB/sec				4.7 GB/sec	
Min Latency*	0.260 ms				0.250 ms	
Sustained Performance* (data reduction off)	430,000 IOPS with 1ms latency for thick LUNs 70/30 R/W				750,000 IOPS with 1ms latency for thick LUNs 70/30 R/W	
Sustained Performance (data reduction on)	200,000 IOPS with 1ms latency for dedupe LUNs 70/30 R/W				250,000 IOPS with 1ms latency for dedupe LUNs 70/30 R/W	
Height	3RU				3RU	
Depth	27"/700mm				27"/700mm	
Width	17.5"/445mm				17.5"/445mm	
Weight	82.5 lbs/ 37.4kg				93.5 lbs/ 42.4kg	
Power**	1060 W				1600 W	
Cooling**	3600 BTU/hr				5500 BTU/hr	
Operating Temperature Range	10 to 35°C (50 to 95°F)					
Non-Operating Temperature Range	-40 to 70°C (-40 to 158°F)					
Humidity Range	8-90% (non-condensing)					
Non-Operating Humidity Range	5-95% (non-condensing)					
Connectivity	8x16Gb Fibre Channel or 8x10 GbE and 2x40 GbE iSCSI (replication only)					
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 hardware single point of failure					
Supported OS software	Concerto OS 7					
Management	Violin Symphony, CLI: serial, SSH-SNMP, Web GUI, REST XML API					
Regulator	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 4 Class A, VCCI Class A, AS/NZS CISPR22:2006 Class A BSMI CNS 13438 Class A, Korea RRA Notice No. 2011-18 Class A Immunity: EN55024, EN 61000-4-2,3,4,5,6,8,11 Korea RRA Notice No. 2011-17 RoHS 2011/65/EU For a full list of specific country approvals, please contact Violin Memory in your country					

*Performance based on Thick LUN Fibre Channel

**Nominal power measurements for Fibre Channel configuration



Pay as You Grow	VIMMs	Upgrade Path
V-7300E-10	32	Up to 35TB with 3 capacity license keys
V-7300E-17	32	Up to 35TB with 2 capacity license keys
V-7300E-26	32	Up to 35TB with 1 capacity license key
V-7300E-35	32	Maximum capacity- no further upgrades
V-7300E-6.6-U	n/a	QTY 1 7300E capacity license key for 10TB only
V-7300E-8.8-U	n/a	QTY 1 7300E capacity license key
V-7300-52	64	Up to 70TB with 2 capacity license keys
V-7300-70	64	Maximum capacity- no further upgrades
V-7300-8.8-U	n/a	QTY 1 7300 capacity license key