



Highlights

Enterprise Performance

- Optimized Microsoft software stack for speed
- Sub-millisecond latency hardware
- Up to 750,000 4K IOPS
- SMB Direct for direct attach like speeds

Enterprise Scalability

- 70 TB in 3RU (per array)
- Up to 32 arrays via Windows clusters
- Expanded volumes with SOFS
- Storage management with Windows System Center

Enterprise Resiliency

- Auto fail-over with Windows cluster capabilities
- Mirroring for data protection
- Zero single point of failure
- Based on Windows Continuous Availability architecture



Windows Flash Array

Enterprise-Class Storage Built for Microsoft Environments

Enterprises increasingly struggle to keep up with customers and competitors in today's fast moving world. Meeting this challenge has historically been difficult. However, today you can deploy a fundamentally different platform that enables you to support enterprise file needs with the speed needed to compete at the highest levels. The Violin Windows Flash Array (WFA) combines Microsoft's Windows Storage Server 2012 R2 with Violin's Flash Array to support a high performance, highly available and highly scalable solution at an affordable price.

The Competitive Edge

Microsoft and Violin Memory have jointly developed an enterprise ready file solution that delivers the performance necessary to deliver transaction speed that can make a difference in the market. The WFA combines Microsoft's re-engineered software stack that is optimized for speed, with support for SMB Direct that is integrated into the insanely fast Flash Array from Violin. The net result is a game-changer for Microsoft environments. Performance that is simply not available today, except on the Windows Flash Array.

The WFA also brings the Enterprise capabilities that are expected in the datacenter. Resiliency is built into the WFA with mirroring and when combined with Windows clusters create additional capabilities for continuous availability. Finally, the hardware capabilities include no single point of failure design, redundant hot-pluggable fans and power supplies and NDU firmware updates.

Scalability is also important and the WFA employs Windows Scale-Out File Server (SOFS), allowing volumes to expand without downtime, and scale-up with Windows clusters. The WFA grows with your business.

Solutions @ the speed of Flash

WFA options such as deduplication, compression and thin provisioning reduce storage consumption costs. Simple configuration and management reduce OPEX as well as training costs for easy-to-implement, cost-effective storage. With storage this fast, servers reach better utilization rates, allowing for further consolidation and lower costs. Applications such as file serving, Hyper-V virtualization, SQL Server and private clouds can all benefit from the WFA. Your Microsoft environment just got an upgrade. Rethink your datacenter.

Specifications

| Series | Windows Flash Array |
|---|---|
| Model | V-6264-8x10GE-WFA |
| Flash Type | MLC |
| Memory Gateway | 2x 8-core Sandybridge CPU, 24GB DRAM per Memory Gateway |
| Raw Capacity (TiB/TB) | 70 TB* |
| Default Usable Capacity | 44 TB* |
| Maximum 4KB IOPS (Mixed) | 750,000 |
| Maximum Bandwidth (100% Reads) | 4 GB/s |
| Nominal Latency | Under 500 µsec |
| VIMM Count (Data + Hot Spare) | 60 + 4 |
| Reliability / Resiliency | Highly Available Hardware Configuration System Level Hardware Based vRAID 4 vRAID Controller Modules 2 Array Controller Modules 2 Memory Gateways Automated Failover & Failback Non-disruptive controller firmware upgrades (NDU) |
| Connectivity Options | 8x 10GbE iSCSI (RDMA enabled) |
| Dimensions Height: Width: Depth: Cable Management: Weight: | 3RU 17.5" / 420mm 27" / 700mm 6" / 153mm 92lbs / 41.7kg |
| Power* | 1500W |
| Cooling | 4961 BTU/hr |
| Client Operating Systems Support | Windows Server 2012 R2 |
| Management | System Center 2012 R2 |
| Flash Endurance | Covered Under 3 Year Warranty or Maintenance Contract, whichever is Greater |
| Environmentals | Inlet Temp: 0°C to 35°C, 0 to 7500 feet 0°C to 30°C, 7500 to 10,000 feet Humidity: 5-95% (non condensing) |
| 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 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 For a full list of specific country approvals, please contact Violin Memory |

* 64TiB/40TiB



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