

PRODUCT BRIEF | All-Flash Storage Appliance

FX60-HD/HP

Viking Enterprise Solutions (VES) Fx60 Integrated Storage Platform Delivers Extreme Speed and High Availability; Ideal for Media, Entertainment and HPC Applications

The Fx60-HD and -HP family is an all-flash high performance, high density and high-availability storage appliance with integrated software and hardware delivering 5M random 4k IOPs (reads) and throughput of 22GB/s (reads). The Fx60 all flash appliance is the industry fastest solution offering unparalleled cost per IOP. This appliance is fully configured from the factory and can be on line in less than 10 minutes. The Graphical User Interface (GUI) is intuitive and easy to use for ongoing system health monitoring and maintenance.

The platform includes a family of all-flash software and hardware solutions including the Fx60-HP20, Fx60-HP50, Fx60-HD35 and Fx60-HD90 appliances. The Fx60 delivers high performance over a range of metrics including cost per IOPS, cost per TB, IOPS per rack unit (RU) space and IOPS per watts. This cost effective performance delivers profitable business value to your customers.

Designed for applications requiring high IOPS performance, the Fx60 is ideal for applications such as online transactional processing (OLTP), online Analytical processing (OLAP), web services providing real time customized web pages. Other high-performance applications include storage for Virtual Desktop (VDI) solutions, managing many streams of high definition video, storing file system metadata and in general applications requiring large numbers of randomly accessed files. Designing your storage solution with the Fx60 increases competitive advantage by speeding up time-to-market for data driven business and providing cost effective, faster service to your users.

HPC systems are currently being adopted by the government, scientific and enterprise markets to solve complex computational problems, such as numeric calculations or data analytics, with a high degree of accuracy and speed. The VES Fx60 system guarantees data integrity with minimal interruption to data services, in the event of hardware or software failures. The Fx60 is a complete storage system which that is configured as an all-flash dual controller storage array supporting host interconnects over Fibre Channel and/or iSCSI.



Fx60 ADVANTAGES

- ▶ Fastest appliance in the industry, offering unparalleled cost per IOP.
- ▶ Fully factory-configured & can be on line in less than 10 minutes
- ▶ Intuitive, easy-to-use GUI for simplified system health monitoring & maintenance
- ▶ Fx60 increases shortens time-to-market, & cost-effectively enables improved customer SLAs

Fx60 USE-CASES

- ▶ Applications requiring lots of randomly accessed files
- ▶ Online transactional processing (OLTP)
- ▶ Online Analytical Processing (OLAP)
- ▶ Virtual Desktop (VDI)
- ▶ Multiple HD video streams
- ▶ File system metadata

FX60-HD/HP

High Performance

Designed for applications requiring high random IOPS performance, the Fx60 is ideal for applications such as online transactional processing (OLTP), online Analytical processing (OLAP), web services providing real time customized web pages. Other high performance applications include storage for Virtual Desktop (VOI) solutions, managing many streams of high definition video, storing file system metadata and in general applications requiring large numbers of randomly accessed files. Designing your storage solution with the Fx60 increases competitive advantage by speeding up time-to-market for data-driven businesses and providing better, faster service to your users.

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High Efficiency

The flash cost is the dominant cost in all-flash arrays, so optimizing the system performance in terms of IOPs /disk, form-factor and power provides the greatest return of investment and business benefit to the end-user. The optimized Fx60 allows datacenters to scale the number of end-users who can enjoy the benefits of low latency optimized storage.

The MPStor appliances fit into a two rack unit (2RU) form-factor and ship in multiple high-performance, as well as high-capacity, configurations.

High performance options include:

- ▶ Fx60-HP20with 20TB Capacity/100GB iSCSI
- ▶ FX60-HP50with 50TB Capacity/100GB iSCSI

High capacity configurations include:

- ▶ Fx60-HD35 with 35TB Capacity/100GB iSCSI
- ▶ Fx60-HD90 with 90TB Capacity/16GB FC

Each version can be configured with various Fibre Channel, 100GE or 40GE HBA cards from vendors such as QLogic and Mellanox. The VES Fx60 hardware and software storage platform leads the market in \$\$/IOPs for greatest return on investment and is available today from VES. For more information please contact us at www.vikingenterprisesolutions.com

ALL-FLASH	The Fx60 is a complete software & hardware appliance in a 2U form-factor supporting Fibre Channel & iSCSI hosts.
HIGH PERFORMANCE	The Fx60 delivers up to 5M IOPs (random 4K reads) & 22GB/s throughput.
HIGH EFFICIENCY	Reduced OPEX through high-density & reduced footprint Reduced CAPEX through balanced system performance Most efficient IOPs/ RU & Throughput/RU
CLI TOOLKIT FOR AUTOMATION	The Fx60 CU toolkit provides a set of python tools that allows a datacenter administrator to automate all storage array configuration & monitoring steps.
HIGH AVAILABILITY	The Fx60 is a dual controller, no single point of failure storage array. The Fx60 provides continued access to storage volumes under many failure conditions such as switch failure, cable failure, disk failures & controller failure.

