

M-Series Storage Arrays

SAP HANA™ Certified Storage



At a Glance

- Feature-rich software optimized with best practices for SAP HANA.
- High capacity NL-SAS HDD, high-speed all-flash (SSD) and hybrid configurations.
- High performance Intel® Xeon® processors and 12 Gbps disk interface.
- Scalability protects storage investment long-term.
- High availability through redundancy, remote copy, and advanced security functions.
- Virtualization support for consolidated and cloud environments
- Easy-to-use management dashboard for efficient SAP HANA hassle-free operations.

Overview

The SAP HANA certified NEC M-Series SAN family delivers the High Performance, Reliability, Functionality, and Features required by SAP to meet the demanding storage needs to support SAP HANA operation. Architected to take advantage of the large cache made possible by the Intel® Xeon® processors, the NEC M-Series Arrays supports a wide range of disk (SSD/HDD) configurations that can be optimized to support the various (IOPS) and throughput (GB/sec) SAP HANA requirements.

Mx10 Series storage offers high-capacity and low-cost near-line SAS (NL-SAS) HDD, 2.5-inch SAS HDD for high performance disk, and high-speed flash (SSD), or a hybrid flash/HDD solutions optimized for the best price-performance ratio to meet business needs. Increased hybrid storage capabilities with 1.6 TB flash drives enable features like data tiering, 2nd level cache, SSD data volumes and cache management for larger data environments.

Designed to support SAP HANA in virtualized and native Linux environments, the Mx10 Series offers high availability and data protection through redundant components and software functions,

as well as advanced security capabilities. Thin provisioning capabilities optimize storage capacity in virtual environments eliminating inefficient utilization of storage capacity. The ability to control multiple SAP HANA Storage systems from a centralized management framework makes the Mx10 Series easy to operate. Quality-of-Service capabilities protect priority applications performance in cloud and centralized environments.

SAP HANA Optimization

The NEC Mx10 Storage Series for SAP HANA complements NEC's Scalable and Certified by SAP Enterprise Servers to deliver the optimal SAP infrastructure solution (Nblock™) for SAP HANA. Supporting SAP HANA Appliances or as a Tailored Datacenter Integration (TDI) Model, configuration guidelines built upon NEC's best practices deliver the assurance and support that can come from only a total converged system provider.



Eco-Friendly Saves Money

In addition to advanced energy-saving technologies to significantly lower power consumption, low-power processors and NEC's StoragePowerConserver spins down inactive drives for further improved energy efficiency. Certified high-efficiency power supplies – 80PLUS PLATINUM for the M510 and M710; and 80PLUS GOLD1 for the M110 and M310 – function in 40° C (104° F) environments, which require less cooling than comparable systems for even lower electricity costs.

The NEC M110 array earned the ENERGY STAR® certification for data center storage. ENERGY STAR products are third-party certified by an EPA-recognized Certification Body to save energy without sacrificing features or functionality. Saving energy prevents greenhouse gas emissions and climate change.

SAP HANA Certified Hardware Specification

SAP® Certified
Hardware for SAP HANA®

		M110	M310	M510	M710
Host Interface	FC	8Gb/16Gb: 4 or 8 port	8Gb/16Gb: 8 port	8Gb/16Gb: 8 to 32 port	8Gb/16Gb: 8 to 48 port
Cache Size		16GB	24GB / 48GB	48GB / 96GB	96GB / 192GB
Supported OS		VMware, Red Hat Enterprise Linux for SAP HANA			
Max. Number of Drives	3.5"	3 to 120 (SSD max. 12)	3 to 240 (SSD max. 240)	3 to 768 (SSD max. 768)	3 to 960 (SSD max. 960)
	2.5"	3 to 120 (SSD max. 12)	3 to 480 (SSD max. 480)	3 to 768 (SSD max. 768)	3 to 960 (SSD max. 960)
Max. TB Capacity (SAS / NL-SAS / SSD)	3.5"	556.4	1,132.8	3,625.1	4,531.4
	2.5"	170	680.2	1,088.4	1,360.5

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