

EMC VNXe1600 – ENTRY LEVEL BLOCK STORAGE

ESSENTIALS

AFFORDABLE

- Entry level block storage for price-sensitive environments
- Enterprise software & advanced data services functionality included
- Reduce capacity requirements/costs with powerful efficiency features

SIMPLE

- Deploy SAN solutions faster with Unisphere Web-based Management
- Use Unisphere Central for multi-system, multi-site management
- Highly optimized for VMware and Microsoft virtualization

EFFICIENT

- Delivered in a small 2U footprint with 5-9's availability
- Built-in protection with snapshots and asynchronous replication
- Single console provisioning and management with VSI & ESI integration plug-ins

USE CASES

- Small-scale physical/virtualized applications and databases
- Microsoft Exchange deployments
- Virtual Servers (supporting as many as 80 VMs)

ENTRY LEVEL BLOCK STORAGE

The EMC VNXe1600™ is a simple, affordable, and efficient block storage array based on the proven [VNXe3200](#) architecture and feature set - purpose-built for price sensitive SMB and ROBO markets as well as Enterprise Workgroup and Departmental environments.

The VNXe1600 is designed to be a customer installable, easy-to-use and deploy system for small scale application and database, Exchange, and virtual server requirements. The VNXe1600 supports SSD and HDD drives, scales to 200 drives (or 400TB) and includes host connectivity options such as Fiber Channel and iSCSI (IPv4/6) with iSCSI Off Load performance – for maximum deployment flexibility.

The VNXe1600 includes a rich set of enterprise storage software functionality and advanced data services including thin provisioning to reduce capacity requirements, FAST Cache to boost performance, asynchronous block replication for DR, snapshots for local data protection, and MCx™ multicore optimization for increased processor efficiency. Additional services including software preloading, rack and stack, and certifications such as NEBS/DC are also available with VNXe1600.

LEVERAGING VNXe SIMPLICITY/EFFICIENCY

The EMC VNXe1600™ SAN architecture leverages the [VNXe](#) “ease of use and install” heritage including 99.999% (5-9's) availability and industry-leading virtualization integrations with VMware and Microsoft to meet the needs of SMB and other entry level application environments.

SIMPLE

The VNXe1600 was designed with ease of deployment and use in mind.

- You can setup a SAN in less than 15 minutes with the VNXe1600 Configuration Wizard. Monitoring and Reporting agent-less software provides a simple and centralized way to monitor storage capacity, utilization, and performance with automated data aggregation for report acceleration.
- EMC Unisphere is included for simplifying application-aware management and EMC Unisphere Central can be used for a more advanced multisite deployment of hundreds of VNXe1600 systems.
- The VNXe1600 is easily configured in virtualized applications environments with deep and industry-leading VMware and Microsoft points of integration to both vSphere and Hyper-V. These integrations include:
 - VMware: VASA, VAAI, vCenter, ESXi hosts, and more
 - Microsoft: ODX, Hyper-V, SMI-S, and more

EFFICIENT

The VNXe1600 has built-in and easy-to-use software features that improve efficiency.

- As a hybrid array, you can optimize storage performance with EMC FAST Cache providing rapid access to frequently accessed data.
- Easily configure the VNXe1600 with all SSDs for top performance or as a hybrid array to get the performance of flash with the cost effectiveness of disk.
- Reduce your capacity requirements with thinly provisioned LUNs without experiencing performance degradation.



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- Protect your valuable data with built-in snapshots and replication functionality.
- Utilize MCx multicore optimization software for core processing efficiency when running mixed and virtualized application workloads
- Take up less floor space with the efficiently packaged VNXe1600 2U dense form factor

VIRTUALIZATION ADVANTAGE

For customers who view their storage through VM administrative tools such as VMware vCenter or Microsoft System Manager, we have no-cost downloadable plug-ins to those consoles that let you do most of the basic element management and provisioning of an array from within those tools. This gives VM administrators the ability to manage storage from tools they already know without having to jump between different tools.

EMC Virtual Storage Integrator (VSI) for VMware environments:

- VSI dramatically simplifies management of virtualized storage with the ability to map virtual machines to storage and to self-provision storage from VMware vCenter.

EMC Storage Integrator for Windows Suite (ESI) for Microsoft environments:

- ESI integrates with Microsoft Management Center to provision applications in less time, monitor storage health with in-depth storage topology views, and automate storage management with rich scripting libraries. ESI also includes System Center integrations such as SCOM, SCO, and SCVMM.



SMB, ROBO, and other entry level environments are constantly under pressure to keep infrastructure costs down and still be expected to improve productivity. The low cost VNXe1600, purpose-built for the entry level SAN market, delivers the simplicity, scalability, efficiency, and availability that applications in these environments require. The VNXe1600 is optimized for virtualized applications/databases, ensures valuable data is protected and secure, supports mixed workloads, and is able to deliver the performance of flash with the cost-effectiveness of disk.

COMPREHENSIVE VNXe1600 SOFTWARE

The VNXe1600, designed for the price sensitive SMB and entry level block storage market, provides the most comprehensive software functionality to ensure customers have all the necessary capabilities to protect and manage their information.



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VNXe1600	Description
VNXe1600 Base Software Included with the Array	• VNXe Operating Environment • Unisphere Web-based Management Interface • Integrated Online Support Ecosystem • Block Protocols: iSCSI (IPv4/6) or FC • Unisphere Central (multi-system, multi-site) • FAST Cache – use SSD as extended cache for performance boost • Block-based Snapshots • Remote Protection - Native asynchronous block replication • Thin Provisioning
Recommended Optional Software	• PowerPath®: intelligent multipathing and load balancing for physical and virtual environments. Licensed separately.

CONTACT US

To learn more about how EMC products, services, and solutions can help solve your business and IT challenges, [contact](#) your EMC representative or visit the EMC Store.

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