

The EMC VNX series implements a modular architecture that integrates hardware components for Block, File, and Object with concurrent support for native NAS, iSCSI, Fiber Channel, and Fibre Channel over Ethernet (FCoE) protocols. The VNX series is based on Intel® Xeon®-based PCI Express 2.0 processors and delivers File (NAS) functionality via two to eight Data Movers and Block (iSCSI, FCoE, and FC) storage via dual storage processors using a full 6-Gb/s SAS disk drive topology.

This guide describes one of five models available in the VNX series, the VNX7500.

The VNX7500 is a high-end/large-capacity storage platform. It offers Block services, File services, or Unified Block and File services. These services are composed of:

- **Block-only**—Includes a storage processor enclosure (SPE), a 1.2 KW standby power supply (SPS), and disk-array enclosures (DAEs) for holding hard disk drives that are integrated to facilitate Fibre Channel, Fibre channel over Ethernet (FCoE), and iSCSI Block services to Windows® and UNIX® hosts.
- **File-only**—Adds Data Mover enclosure (DME) and Control Station (CS) hardware to SPE, SPS, and DAEs to facilitate file services to CIFS/NFS clients.
- **Unified Block and File**—Uses same hardware as the File-only configuration but adds FC, iSCSI, and FCoE I/O connectivity to provide Block services to host simultaneously so as to provide file services to clients.

The VNX7500 platform supports two types of DAEs; a 15 drive 3.5-inch disk 3U enclosure and a 25 drive 2.5-inch disk 2U enclosure. Expansion of up to sixty-six 3U DAEs (a maximum of 990 3.5-inch disk drives) or up to forty 2U DAEs (a maximum of 1000 2.5-inch disk drives).

Topics covered include:

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Emc Vnx7500 Hardware Information Guide

Michael Brown



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