

EMC Symmetrix DMX-4



EMC Symmetrix DMX-4 systems are available in two- to nine-bay configurations for more than one petabyte of raw storage capacity in a single system. With incremental tiered storage capability for maximum TOS values, Symmetrix DMX-4 systems are the highest capacity, fastest, most scalable, most capable storage systems available and serve as the foundation of today's most demanding, intelligent information solutions.

The EMC² Symmetrix[®] DMX-4 delivers scalable capacity and performance for consolidate systems, applications, and/or hosts while maintaining high service levels. Incrementally scalable packaging facilitates the online addition of disk directors enabling increased performance when needed.

System Resources

Symmetrix DMX-4 systems are built on the field-proven Direct Matrix Architecture[™] which provides dedicated, non-blocking interconnects between I/O directors and global memory regions. To support the massive scalability of DMX-4 configurations, the DMX architecture has been expanded and enhanced to deliver higher throughput (1 GB/s disk) and increased I/O performance (four dual 1.3 GHz PPC processors per director).

DMX data paths	32-128	8 per I/O director, 24 per Global Memory director
DMX data bandwidth	32-128 GB/s	
DMX message bandwidth	4.0-6.4 GB/s	
PowerPC processors	16-128	4 dual 1.3 GHz processor complexes per director
Global Memory	32-512 GB*	Available in 8, 16, 32, and 64 GB Global Memory directors
Consistent memory transfers	16-32	4 per Global Memory director
*25.6 GB effective		

Connectivity

Symmetrix DMX-4 is available in configurations supporting up to ten (10) High-Speed Channel (HSC) Directors with four SMP-driven pipeline slots each. Optimized hardware logic and data protection encoding ensures end-to-end data integrity with automated channel failover for maximum availability and load balancing. Symmetrix DMX[™] systems support all popular hardware and operating system platforms, storage area networks (SANs), and high-availability cluster environments. IPv6 and IPv6c support are available with GigE ports.

Protocol	Usable System Ports	Channel Director
4 Gb/s Fibre Channel host/SAN ports	2-64	1-8 per Fibre Channel Director
4 Gb/s Fibre Channel remote replication ports	2-8	1-4 per Fibre Channel Director
1 Gb/s iSCSI ports	2-40	1-4 per Multi-protocol Channel Director
4 Gb/s FC0/N host ports	2-40	1-4 per Multi-protocol Channel Director
1 Gb/s GigE remote replication ports	2-8	1-4 per Multi-protocol Channel Director
ES00N host ports	2-64	1-8 per ES00N Channel Director
ES00N remote replication ports	2-8	1-4 per ES00N Channel Director

Allowed combinations of the above port types depend upon the configuration. Higher numbers of usable host and replication ports are only supported in configurations with fewer disk channels. Refer to the EMC Support Matrix on EMC.com or contact your local EMC sales representative for specific configuration support.



Emc Symmetrix Dmx 4 Product Guide

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based data center requires similar knowledge The authors take a theoretical and practical approach starting with the key questions to help uncover needs and clarify project scope They then demonstrate probability tools to test and support decisions and provide processes that resolve key issues After laying a foundation of cloud concepts and definitions the book addresses data center creation infrastructure development cost modeling and simulations in decision making each part building on the previous In this way the authors bridge technology management and infrastructure as a service in one complete guide to data centers that facilitates educated decision making Explains how to balance cloud computing functionality with data center efficiency Covers key requirements for power management cooling server planning virtualization and storage management Describes advanced methods for modeling cloud computing cost including Real Option Theory and Monte Carlo Simulations Blends theoretical and practical discussions with insights for developers consultants and analysts considering data center development

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Table of Contents Emc Symmetrix Dmx 4 Product Guide

1. Understanding the eBook Emc Symmetrix Dmx 4 Product Guide
 - The Rise of Digital Reading Emc Symmetrix Dmx 4 Product Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Emc Symmetrix Dmx 4 Product Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Emc Symmetrix Dmx 4 Product Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Emc Symmetrix Dmx 4 Product Guide
 - Personalized Recommendations
 - Emc Symmetrix Dmx 4 Product Guide User Reviews and Ratings
 - Emc Symmetrix Dmx 4 Product Guide and Bestseller Lists
5. Accessing Emc Symmetrix Dmx 4 Product Guide Free and Paid eBooks
 - Emc Symmetrix Dmx 4 Product Guide Public Domain eBooks
 - Emc Symmetrix Dmx 4 Product Guide eBook Subscription Services
 - Emc Symmetrix Dmx 4 Product Guide Budget-Friendly Options

6. Navigating Emc Symmetrix Dmx 4 Product Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Emc Symmetrix Dmx 4 Product Guide Compatibility with Devices
 - Emc Symmetrix Dmx 4 Product Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Emc Symmetrix Dmx 4 Product Guide
 - Highlighting and Note-Taking Emc Symmetrix Dmx 4 Product Guide
 - Interactive Elements Emc Symmetrix Dmx 4 Product Guide
8. Staying Engaged with Emc Symmetrix Dmx 4 Product Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Emc Symmetrix Dmx 4 Product Guide
9. Balancing eBooks and Physical Books Emc Symmetrix Dmx 4 Product Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Emc Symmetrix Dmx 4 Product Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Emc Symmetrix Dmx 4 Product Guide
 - Setting Reading Goals Emc Symmetrix Dmx 4 Product Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Emc Symmetrix Dmx 4 Product Guide
 - Fact-Checking eBook Content of Emc Symmetrix Dmx 4 Product Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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