EMC VPLEX LOCAL WITH VS2

The EMC® VPLEX® family delivers data availability and mobility and access within, across, and between data centers. EMC VPLEX Local provides simplified management and non-disruptive data mobility across heterogeneous arrays within a data center. With a unique scale-up and scale-out architecture, the VPLEX system's advanced data caching and distributed cache coherency provide workload resiliency, automatic sharing, balancing, and failover of storage domains and enable local data access with predictable service levels.

Specifications

FEATURES

DISTRIBUTED CACHE COHERENCE

- Automatically share, balance, and fail-over storage domains among VPLEX engines in a single cluster

ONLINE MOBILITY

- Move production volumes among heterogeneous arrays
- No host disruption or downtime

VOLUME MANAGEMENT

- Create striped, concatenated, and sliced volumes

NETWORK-BASED MIRRORING

- Mirror data across heterogeneous arrays

STORAGE POOLING

- Create a heterogeneous storage pool in the network

RELIABILITY AND AVAILABILITY

- Highly resilient and redundant cluster with no single point of failure
- Non-disruptive hardware and software upgrades
- Dual (A/B) fabric support

SYSTEM CAPACITIES PER VPLEX CLUSTER

• Maximum virtualized capacity	No known limit
• Maximum virtual volumes	8,000
• Maximum storage elements	8,000
• Minimum/maximum virtual volume size	100 MB/32 TB
• Minimum/maximum storage volume size	No VPLEX Limit/32 TB
• Number of initiators	1600

CONNECTIVITY

- Hosts and arrays are connected to the VPLEX engine using standard Fibre Channel SANs, enabling host fan-in and array fan-out

READ/WRITE I/O LIMITS; THROUGHPUT; LATENCY

• IOPS	Up to 3,000,000 IO/s
• GB/s	Up to 23.2 GB/s
• Latency/Response time	Typical Range 400-600uSec

Stated limits are per a fully configured four-engine VPLEX cluster. Actual results may vary depending on I/O workload

MANAGEMENT

- Web-based graphical user interface (GUI) with SSL security
- Command line interface (CLI)
- 10/100/1,000 Ethernet port/LAN connectivity

INTEROPERABILITY

- Please see the EMC E-Lab™ Simplified Support Matrix for details

ENVIRONMENTAL SPECIFICATIONS

Physical Dimensions and Weight

	Height	Width	Depth	Weight
VPLEX Cabinet	75 in (190 cm)	24 in (60 cm)	39.37 in (100 cm) overall; 41.5 in (105.4 cm) including front door	
VPLEX Single Cluster (one engine)				754 lb (342 kg)
VPLEX Dual Cluster (two engines)				1,017 lb (462 kg)
VPLEX Quad Cluster (four engines)				1,418 lb (644 kg)

POWER CABLING

Connector	Operating Voltage and Frequency	Service Type	Region
NEMA L6-30P	200-240 VAC and 50-60 Hz	30-amp, single phase	North America, Japan
IEC 309332P6	200-240 VAC and 50-60 Hz	32-amp, single phase	International (except Australia)
56PA332 CLIPSAL P/n	200-240 VAC and 50-60 Hz	32-amp, single phase	Australia

*Note: Each AC circuit requires a source connection that can support a minimum of 4800 VA of single-phase, 200-240 VAC input power. For high availability, the left and right sides of the cabinet must receive power from separate branch feed circuits.

OPERATING SPECIFICATIONS

	Total Power Consumption (kVA)	Heat Dissipation
VPLEX Single Engine	.60	1,900
VPLEX Dual Engine	1.29	4,000
VPLEX Quad Engine	2.32	7,200

	Temperature: Non-Operating	Temperature: Operating	Humidity: Non-Operating
VPLEX Single Engine	-40 to 149 degrees Fahrenheit (-40 to 65 degrees Celsius)	50 to 90 degrees Fahrenheit (10 to 32 degrees Celsius)	10-90%, non-condensing
VPLEX Dual Engine	-40 to 149 degrees Fahrenheit (-40 to 65 degrees Celsius)	50 to 90 degrees Fahrenheit (10 to 32 degrees Celsius)	10-90%, non-condensing
VPLEX Quad Engine	-40 to 149 degrees Fahrenheit (-40 to 65 degrees Celsius)	50 to 90 degrees Fahrenheit (10 to 32 degrees Celsius)	10-90%, non-condensing

	Humidity: Operating	Altitude: Non-Operating	Altitude: Operating
VPLEX Single Engine	20-80%, non-condensing	25,000 ft (7.62 km) max.	10K ft (3 km) max
VPLEX Dual Engine	20-80%, non-condensing	25,000 ft (7.62 km) max.	10K ft (3 km) max
VPLEX Quad Engine	20-80%, non-condensing	25,000 ft (7.62 km) max.	10K ft (3 km) max

For more information: Explore and compare the latest VPLEX products in the EMC Store

EMC Corporation
Hopkinton, Massachusetts 01748-9103
1-508-435-1000 In North America 1-866-464-7381
www.EMC.com