

# EMC VPLEX METRO WITH VS2



The EMC® VPLEX® family delivers data availability and mobility within, across, and between data centers. EMC VPLEX Metro provides simplified management and non-disruptive data mobility between two VPLEX clusters within synchronous distances. 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

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### FEATURES

#### CONTINUOUS AVAILABILITY AND MOBILITY

- Transparently share, access and relocate data over distance

#### DISTRIBUTED CACHE COHERENCE

- Automatically share, balance, and fail-over storage domains within and across VPLEX engines in a single cluster or two clusters joined together

#### ONLINE MOBILITY

- Move production volumes among heterogeneous arrays and between sites
- 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
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### 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
  - Optional VPLEX Witness for enhanced availability
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### SYSTEM CAPACITIES PER VPLEX CLUSTER

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|---------------------------------------|----------------------|
| • Maximum virtualized capacity        | No known limit       |
| • Maximum virtual volumes             | 16,000               |
| • Maximum storage elements            | 16,000               |
| • Minimum/maximum virtual volume size | 100 MB/32 TB         |
| • Minimum/maximum storage volume size | No VPLEX Limit/32 TB |
| • Number of initiators                | 3,200                |
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### CONNECTIVITY

- Hosts and arrays are connected to the VPLEX engine using standard Fibre Channel SANs, enabling host fan-in and array fan-out
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### READ/WRITE I/O LIMITS

- IOPS Up to 3,000,000 IO/s
- GB/s Up to 23.2 GB/s

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](#)

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