EMC VPLEX METRO WITH VS2

The EMC® VPLEX™ family delivers information mobility and access within, across, and between data centers. EMC VPLEX Metro provides data access and 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 coherence provide workload resiliency, automatic sharing, balancing, and failover of storage domains and enables both local and remote data access with predictable service levels.

Specifications

FEATURES

AccessAnywhere™
- 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 data mobility
- Move production volumes between sites
- Move production volumes among heterogeneous arrays
- No host disruption or downtime

Volume management
- Create striped, concatenated, and sliced volumes

Network-based mirroring
- Mirror data synchronously across heterogeneous arrays and between sites

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
- Optional VPLEX Witness for enhanced availability

SYSTEM CAPACITIES PER VPLEX METRO CLUSTER

• 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

intel Xeon inside Powerful. Efficient.

CONNECTIVITY

- Hosts and arrays are connected to the VPLEX engine using standard Fibre Channel SANs, enabling host fan-in and array fan-out
- Inter-cluster connectivity is Fibre Channel (over dark fibre, DWDM, over IP) and UDT (UDP-based data transfer) over IP

READ/WRITE I/O LIMITS PER METRO CLUSTER

- IOPS — Up to 2,240,000 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)	37 in (100 cm) overall; 41.5 in (105.4 cm) including front door	
VPLEX Single Engine	—	—	—	754 lb (342 kg)
VPLEX Dual Engine	—	—	—	1,017 lb (462 kg)
VPLEX Quad Engine	—	—	—	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
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

	Total Power Consumption (kVA)	Heat Dissipation
VPLEX Dual Engine	1.29	4,000
VPLEX Quad Engine	2.32	7,200

OPERATING LIMITS

	Temperature: Non-Operating	Temperature: Operating	Humidity: Non-Operating
VPLEX Single Engine	-40 to 149˚ Fahrenheit (-40 to 65˚ Celsius)	50 to 90˚ Fahrenheit (10 to 32˚ Celsius)	10-90%, non-condensing
VPLEX Dual Engine	-40 to 149˚ Fahrenheit (-40 to 65˚ Celsius)	50 to 90˚ Fahrenheit (10 to 32˚ Celsius)	10-90%, non-condensing
VPLEX Quad Engine	-40 to 149˚ Fahrenheit (-40 to 65˚ Celsius)	50 to 90˚ Fahrenheit (10 to 32˚ 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	10,000 ft (3 km) max
VPLEX Dual Engine	20-80%, non-condensing	25,000 ft (7.62 km) max	10,000 ft (3 km) max
VPLEX Quad Engine	20-80%, non-condensing	25,000 ft (7.62 km) max	10,000 ft (3 km) max

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