

Xsigo VP780 I/O Director™

SERVER INTERCONNECTS:

Ports	24 non-blocking InfiniBand server ports
Interconnect	Cx4 Copper (Ports powered for fibre optic interfaces)
Speed	10 Gigabits per second per port full-duplex

EXPANSION SLOTS:

Module Slots	15 slots for I/O and Service modules
	10 Gigabit per second full-duplex bandwidth per slot

10 GIGABIT ETHERNET I/O MODULE:

Physical Ports	One Optical XFP or Cx4 XFP Port
Virtual Interfaces	Up to 128 Virtual NICs (vNICs) per module Up to 1,920 vNICs per VP780 IO Director
Quality of Service (QoS)	User settable QoS features include CIR – Committed information rate PIR – Peak information rate WRED – Excessive drop prevention
PXE	Virtual NICs can be configured for PXE boot
MAC Addresses	Each vNIC is assigned a unique MAC address MAC addresses can dynamically migrate with specific virtual machine
Power Consumption	55 Watts Maximum

GIGABIT ETHERNET I/O MODULE:

Physical Ports	4 Gigabit Ethernet Ports, RJ-45 style
Virtual Interfaces	Up to 64 Virtual NICs (vNICs) per module* Up to 960 vNICs per VP780 IO Director
Quality of Service (QoS)	User settable QoS features include CIR – Committed information rate PIR – Peak information rate WRED – Excessive drop prevention
PXE	Virtual NICs can be configured for PXE boot
MAC Addresses	Each vNIC is assigned a unique MAC address MAC addresses can dynamically migrate with specific virtual machine
Power Consumption	45 Watts Maximum *Two vNICs reserved internal card management

4-GIGABIT FIBRE CHANNEL I/O MODULE:

Physical Ports	Two 4/2/1 Gbps auto-negotiating SFP ports
Connectors	Two SFP Optical Transceivers (850nm)
Virtual Interfaces	up to 128 Virtual HBAs (vHBAs) per IO Module' up to 1,920 vHBAs per VP780 IO Director
Protocols	FC-AL, FCP (SCSI-FCP)
World Wide Name (WWN)	Each vHBA is assigned a unique WWN WWNs can dynamically migrate with specific virtual machine
Quality of Service	User settable QoS features include: CIR – Committed information rate PIR – Peak information rate
Power Consumption	45 Watts Maximum *Two vHBAs reserved for internal card management

MANAGEMENT:

Management Interfaces	Java-based Management GUI, Command-line interface (CLI) through SSH Advanced API for integration with 3rd party software
Lights Out Management	Supports IPMI based LOM
Management Module I/O	Ethernet management network, RS232 Console, Auxiliary ports, USB

MAINTENENCE:

Replaceable Modules	I/O Modules, Management Module, Power Supplies, Fabric Board, System Controller, Fan Tray Assemblies
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POWER:

Voltage	100 – 127 / 200 – 240 VAC
Max Current	12A @ 100 Volts or 7.68A @ 180 Volts
Frequency	47 - 63 Hz
Power	Chassis (fully loaded): 1000 Watt Sustained Maximum 1280 Watt Temporary Maximum

ENVIRONMENTAL:

Operating Temp	0 degrees C to 40 degrees C
Relative Humidity	10 to 80% at 40 C, non-condensing
Non-operating Temp	-40 degrees C to 70 degrees C
Non-operating Humidity	90% at 65 degrees C, non-condensing
Altitude (Operating)	Up to 3000 m
Altitude (Non-operating)	Up to 15,000 m

CHASSIS DIMENSIONS AND WEIGHT:

Height	4U - 176 mm (6.93 inches)
Width	444.5 mm (17.5 inches)
Depth	768 mm (30.23 inches)
Weight	42 kg (93 lb.) with no modules - Modules are approximately 0.9 kg (2 lb.)

REGULATIONS:

Safety	UL 60950-1, CSA C22.2 No. 60950-1, EN 60950-1, IEC 60950-1
RFI/EMI	FCC Class A, ICES Class A, VCCI Class A, EN 55022 Class A, CNS 13438 Class A, KN22 and KN24 Class A
Immunity	EN55024:1998 including A1:2001 and A2:2003, EN61000-4-3
RoHS	RoHS Level 5

MOUNTING SPECIFICATIONS:

Rack Mounting	19" universal EIA Rack, 2-post or 4-post mounting kit
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