

HP 10GbE Network and Storage Area Network (SAN) Connectivity Products from Emulex

Why Emulex with HP: Benefits

Investment protection—Emulex has supplied products to HP customers for over 14 years and across ten generations of products and platforms with backward compatibility.

Higher reliability and availability—Emulex 8Gb Fibre Channel (8GFC) adapters operate 22% cooler, with Mean Time Between Failures (MTBF) 166% better than the competition.¹

End-to-end virtualization—Emulex supports more virtual machines (VMs) than the nearest competitor with vScale™ and vEngine™ technologies.

Higher performance—With HBA superior dual-channel scaling and CPU utilization efficiency, HP customers achieve greater total IOPS, superior second-channel scalability, and higher throughput with MSI-X for all 8GFC products. Additionally, the HP 10Gbps Ethernet adapters and HP FlexFabric Adapters enable optimum performance and flexibility with virtualized servers.²

Lower operational expenses (OpEx)—GreenState™ power efficiency and firmware-based architecture results in lower OpEx. 10GbE adapters deliver savings from 95% fewer adapters, switches and cables and 40% less power and cooling.

¹ Emulex OneConnect™ OCe10000 UCNA vs. QLogic QLE8100: www.emulex.com/artifacts/1baeff1d-7d49-4f61-8359-4c5897173654/elx_cb_qle8100_qlogic.pdf

² IT Brand Pulse Unified Data Center Networking Test Report, Jan. 2010: www.emulex.com/artifacts/e8bda627-a5f8-443c-8376-7dfbf47542f/itbrandpulse_ar_all_cnaPerformance.pdf

HP Host Bus Adapters for HP Integrity

Server Family	OS Support	HP Part #	HP Model #	Emulex Model #	Brief Description
HP Integrity BladeSystem BL860c, BL870c, BL860c i2, BL870c i2, BL890c i2	HP-UX (exclude MSA2000fc G1)	456972-B21	N/A	LPe1205-HP	8Gbps DC PCI Express Mezzanine Card Saturn
HP Integrity BladeSystem BL860c, BL870c	HP-UX (exclude MSA2000fc G1), Win Server 2003/2008	403621-B21	N/A	LPe1105-HP	4Gbps DC PCI Express Mezzanine Card Zephyr
HP 9000 & HP Integrity	Win Server 2003/2008, Windows 2000, Linux, VMware	AD167A AD168A	FC2143 FC2243	LP1150 LP11002	End of Life (EOL): Refer to HP Part #A8002A End of Life (EOL): Refer to HP Part #A8003A
HP Integrity, HP Superdome	Win Server 2003/2008, Win 2000/2008, Linux, Solaris, VMware	A8002A	FC2142SR	LPe1150	4Gbps SC PCI Express Midrange Zephyr
		A8003A	FC2242SR	LPe11002	4Gbps DC PCI Express Enterprise Zephyr
		AD221A	N/A	N/A	4Gbps SC PCI Express Zephyr-based, 1Gb/s SC Ethernet
		AD222A	N/A	N/A	4Gbps DC PCI Express Zephyr-based, 1Gb/s DC Ethernet
HP Integrity, HP Superdome	HP-UX (exclude MSA2000fc G1)	AD393A	N/A	N/A	4Gbps DC PCI Express Zephyr-based, 1Gb/s DC Ethernet (optical)
		AD299A	N/A	N/A	4Gbps SC PCI Express Zephyr-based
		AD355A	N/A	N/A	4Gbps DC PCI Express Zephyr-based
		AH402A	N/A	LPe12000	8Gbps SC PCI Express Enterprise Saturn
HP Integrity, HP Superdome	Win Server 2003/2008, HP-UX	AH403A	N/A	LPe12002	8Gbps DC PCI Express Enterprise Saturn
		A8002A	FC2142SR	LPe1150	4Gbps SC PCI Express Midrange Zephyr
		A8003A	FC2242SR	LPe11002	4Gbps DC PCI Express Enterprise Zephyr
		AD167A	FC2143	LP1150	End of Life (EOL): Refer to HP Part #A8002A
HP Integrity	Win 2000, 2008, Win Server 2003/2008, Linux, VMware, Solaris Win Server 2003/2008, Win 2000, Linux, Solaris 10-x86 (exclude MSA), VMware Win 2000, Win Server 2003/2008, Linux, VMware Win Server 2003/2008, Linux, Solaris 10-x86 (exclude MSA), VMware	AD168A	FC2243	LP11002	End of Life (EOL): Refer to HP Part #A8003A
		AJ762A	81E	LPe12000	8Gbps SC PCI Express Enterprise Saturn
		AJ763A	82E	LPe12002	8Gbps DC PCI Express Enterprise Saturn
		AT094A	N/A	N/A	2x8Gbps FC plus 2x1/10GbE multifunction adapter ³

HP 10GbE and FlexFabric Adapters for HP Integrity

Server Family	OS Support	HP Part #	HP Model #	Emulex Model #	Brief Description
HP Integrity, HP Superdome	HP-UX 11iv3 (1109) Drivers: LAN – IOCXGBE (Web1111); FC – FCLP (Web 1108)	AT094A	N/A	N/A	2x8Gbps FC plus 2x1/10GbE multifunction adapter ³
	HP-UX 11iv3 (1109) Drivers: LAN – IOCXGBE (Web1111); FC – FCOC (Web 1108)	AT111A	CN1100E	OCe11102-FX OCe11102-FM	Two 10Gbps ports supporting Ethernet and FCOE in a single adapter (PCIe Gen 2.0 x8)
	HP-UX 11iv3 (1109) Drivers: LAN – IOCXGBE (Web1111)	AT118A	NC552SFP	OCe11102-NX OCe11102-NM	Two 10Gbps ports supporting Ethernet over PCIe Gen 2.0 x8 adapter
HP Integrity BladeSystem BL860c i2, BL870c i2, BL890c i2	HP-UX 11iv3 (1109) Drivers: LAN – IOCXGBE (Web1111); FC – FCOC (Web 1108)	613431-B21	NC553m	N/A	Two 10Gbps ports supporting Ethernet and FCOE in a single adapter (PCIe Gen 2.0 x8). Each port splits into 4 Flex-NICs or 3 Flex-NICs +1 Flex--FCOE
HP Integrity BladeSystem BL860c i2, BL870c i2, BL890c i2	HP-UX 11iv3	580151-B21	NC551m	N/A	Virtual Connect FlexFabric Mezzanine Adapter
HP Integrity i2 servers: BL860c, BL870c, BL890c	HP Integrity OS Support: HP-UX, HP Virtual Machines	610609-B21	NC552m	N/A	HP Flex-10 10GbE Mezzanine Adapter

For more information on 10Gb Ethernet and converged networking, visit the Emulex Universal CNA Solution site at www.emulex.com/solutions/convergenomics.html

³ SFP+ Optical Fiber Modules

Saleable	Purchase PN	Description
AJ718A	AJ718-63001	HP 8Gb SW FC SFP+
455883-B21	455885-001	HP BLc 10Gb SR SFP+ Opt
453154-B21	453156-001	HP BLc VC 1Gb RJ-45 SFP Opt Kit

Note: Transceivers and cables must be purchased separately.

Notes:

DC = dual channels/ports. SC = single channel/port. Please consult your HP representative or HP SAN Infrastructure Web page for additional configuration support details and the retired list of HBAs.

For VMware support, please go to the VMware Web page www.vmware.com/pdf/vi3_io_guide.pdf for the current list of Emulex HBAs supported by HP and VMware.

