

Emulex Features & Benefits:

- Flexible firmware-based architecture for high availability
 - Perfect for large-scale deployments thanks to the common driver architecture and unique features including the ability to update firmware without downtime.
- Integrated into all IBM server platforms
 - Emulex is the only HBA that is available across all IBM platforms (IBM System x and IBM BladeCenter® included) enabling the customer to use a common management interface regardless of the server brand.
- Leader in Virtualisation
 - Emulex technology is integrated into IBM zSeries, VMware ESX Server 2.5.x and 3.0 and supports Microsoft Virtual Server Manager through Emulex VMPilot™ Virtual HBA Software.
- First to Market with NPIV
 - Jointly developed with IBM, Emulex is the first to market with support for industry-standard N-Port ID Virtualisation (NPIV) which will be integrated into the upcoming VMware ESX Server release.
- Simple to deploy
 - Emulex AutoPilot Installer® is integrated into IBM Remote Deployment Manager and enables the HBA, switch and storage to be set up in just seven clicks.

Drivers, Datasheets and White Papers:

IBM URL Links:

- HBA interoperability search tool: www-03.ibm.com/servers/storage/support/config/hba/index.wss
- Configurator Tools: www-03.ibm.com/servers/eserver/xseries/library/configtools.html
- Server Proven - Shared Storage Adapters: www-03.ibm.com/servers/eserver/serverproven/compat/us/xseries/sharedstorage/samatrix.html

Emulex URL Links:

- Driver Matrix: www.emulex.com/ibm/support/index.jsp
- Firmware and Bootcode for Standard Adapters: www.emulex.com/ibm/support/firmware.jsp

White Papers, news, articles and datasheets:

- OEM Site: www.emulex.com/ibm
- IBM HBA Datasheet: www.emulex.com/ibm/ibmqualified_ds11.pdf
- IBM DS3400 Simple SAN Express Kit: www.emulex.com/ibm/ds3400/index.jsp
- Whitepaper: Enabling Emulex Boot from SAN on IBM BladeCenter: www.emulex.com/white/hba/enabling_boot_ibm.pdf
- Whitepapers: www.emulex.com/white/index.jsp

Emulex Advantages:

Superior Performance

- 78% greater throughput than competitor (see graph below)
 - 36% greater database IOPS
 - Better multi-port scalability
- www.emulex.com/white/hba/07-072fullthroughput.pdf

Simple Manageability

- HBAAnyware® streamlines HBA management with a centralised, secure management solution
 - HBAAnyware integration with IBM Director provides efficient administration via for HBAs on local and remote SANs
- www.emulex.com/white/hba/hbanyware4solaris.pdf

Higher Availability

- Industry's most reliable HBA based on actual field return data
 - 30% higher reliability over nearest competitor
 - Emulex MTBF is 10 million hours
- www.emulex.com/pdfs/mtbf.pdf

TPC Benchmark E for IBM® System x™ 3850 M2

www.emulex.com/white/hba/08-882-white-TPC-E-1.pdf

Find your magic number



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IBM Cross Reference Chart

IBM-branded 4Gb/s and 8Gb/s Fibre Channel Host Bus Adapters (IBM Server Proven Validation)										
IBM System	Slots	System Bus	Fibre Channel Speed	Number of Channels	IBM Part Number	Emulex Part Number	Operating System	Qualifying Storage		
x3200, x3200 M2, x3250, x3250 M2, x3350, x3455 ^A	2	PCIe	4Gb/s	Single Channel	42C2069	LPe11000	Windows Linux NetWare Vmware ^E	IBM ^F DS3000 DS4000 DS6000 DS8000 ^F EMC ^G Symmetrix CLARiiON		
x3400, x3500	3			Dual Channel	42C2071	LPe11002				
x3460	1		8Gb/s	Single Channel	42D0485	LPe12000				
x3550 ^B	2			Dual Channel	42D0494	LPe12002				
x3650 ^C	4		PCI-X	4Gb/s	Single Channel	42D0405			LP11000	
x3655	2				Dual Channel	42D0407			LP11002	
x3755, x3800 ^D x3850	4			4Gb/s	Single Channel	39Y9186			N/A	
x3850 M2 x3950 M2	7				Dual Channel	43W6859			N/A	
x3400 x3500	2		PCI-X	4Gb/s	Single Channel	42D0405			LP11000	Windows Linux NetWare AIX (JS22/12) VMware Solaris
x3200 M2, x3550 ^B , x3655	1				Dual Channel	42D0407			LP11002	
x3755 x3800 ^D x3850	2	Dual Channel			42D0407	LP11002				
x3950	6									
IBM BladeCenter SFF Expansion Card HS20 (8843) LS20 (8850) JS21 Express (7988)	1	PCI-X	4Gb/s	Single Channel	39Y9186	N/A	Windows Linux NetWare	IBM ^F DS3000 DS4000 DS6000 DS8000 ^F EMC ^G Symmetrix CLARiiON		
				Dual Channel						
IBM BladeCenter CFFv Expansion Card HS12 (8014/8028) HS21 (8853/7995) LS21 (7971) LS41 (7972) JS12 (7998-60X) JS22 (7998)	1	PCI-X	4Gb/s	Dual Channel	43W6859	N/A	AIX (JS22/12) VMware Solaris			

Notes

- ^A x3455: Only (1) PCIe HBA can be installed if the HTx card is installed
- ^B x3550: PCI-X slots are optional
- ^C x3650: This system can be configured with (4) PCIe slots or (2) Pci-X and (2) PCIe slots depending on riser card configuration
- ^D x3800: If client adds optional rise carder, they will add (2) Pci-X slots and eliminate (2) of the existing PCIe slots
- ^E Emulex recommends checking the IBM Server Products site for the latest information on operating system support
- ^F See IBM Storage interoperability guides for details
- ^G See EMC Support Matrix <http://www.emc.com/interoperability/matrices/EMCSupportMatrix.pdf> for details

IBM DS3400 Simple SAN Express Kits. Install in minutes; provisions in seconds.

IBM Deploys Microsoft Designated "Simple SAN Solution" Utilising Emulex HBAs and EZPilot Software with Brocade Switches

See www.emulex.com/ibm/ds3400/ds.pdf for more details

visit www.emulex-ibm.com today!

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