



QLogic 8200 dual-port 10 GbE SFP+VFA adapter and 8200 FCoE/iSCSI License for IBM System x are now available as a prepackaged bundle, delivering robustness, ease of management, and high performance

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At a glance

The QLogic Dual Port 10 GbE SFP+ VFA Adapter for IBM® System x® is based on the 8200 Series adapters and represents the third generation of QLogic Converged Network Adapters, supporting simultaneous LAN (TCP/IP) and SAN (Fibre Channel over Ethernet (FCoE), iSCSI) traffic at line-rate, 10 Gbps Ethernet speed.

Dual-port, line-rate 10 Gbps throughput for moving large amounts of data and eliminating server I/O bottlenecks.

The 8200 Series adapters improve on previous generation products with the following features:

- PCIe Gen2 x8 support for higher dual-port throughput
- Advanced virtualization
- Full hardware offload for iSCSI
- Support for DAC Cables
- Line rate across both ports

The adapter ships with the Ethernet features. FCoE and iSCSI are enabled when a client purchases the optional software license key, Qlogic FCoE/iSCSI License for IBM System x (FoD) (00Y5624)

Overview

The QLogic Dual Port 10 GbE SFP+ VFA Adapter for IBM System x is based on the 8200 Series adapters and represents the third generation of QLogic Converged Network Adapters, supporting simultaneous LAN (TCP/IP) and SAN (Fibre Channel over Ethernet (FCoE), iSCSI) traffic at line-rate, 10 Gbps Ethernet speed. This convergence of networking traffic lowers data center costs by eliminating the need for separate LAN and SAN infrastructure. Data centers now need fewer adapters, cables, and switches, which also means reduced power and cooling costs. In addition, these adapters are fully compatible with existing Fibre Channel and iSCSI storage, providing investment protection for existing infrastructure.

The 8200 Series adapters improve on previous generation products with the following features:

- PCIe Gen2 x8 support for higher dual-port throughput
- Advanced virtualization
- Full hardware offload for iSCSI
- Support for DAC Cables
- Line rate across both ports

Features and benefits:

- 8200 Series
 - The 8200 Series of Converged Network Adapters support simultaneous LAN (TCP/IP) and SAN (FCoE, iSCSI) traffic at line-rate, 10 Gbps Ethernet speed. These adapters interface to the host server with a PCIe Gen2 x8 bus, designed to ensure that internal performance bottlenecks do not occur.
- FCoE and iSCSI hardware offload
 - When purchased with the optional QLogic FCoE/iSCSI License for IBM System x (FoD) (00Y5624). The 8200 Series adapters support full hardware offload for FCoE and iSCSI protocol processing. QLogic's FlexOffload features free up the server CPU to perform other tasks. Consequently, server applications can run faster and virtualized servers can support more virtual machines (VMs). Very few adapters in today's market truly support full hardware offload; most rely on the server CPU for FCoE and iSCSI protocol processing.
- Convergence
 - The 8200 Series adapters reduce data center costs by converging data and storage networking. This convergence results in buying fewer adapters, cables, and switches. In addition, convergence offers lower power consumption, reduced cooling, and easier LAN and SAN management.
- Common drivers
 - The 8200 Series adapters are compatible with the same Fibre Channel and iSCSI software driver stacks that have been deployed and battle-hardened in millions of previous installations. These drivers are common across QLogic's lineup of Fibre Channel and iSCSI adapters, simplifying revision management in heterogeneous environments.
- Management
 - Networking, FCoE, and iSCSI management is easy with QLogic's new, unified management application, QConvergeConsole (QCC). QCC provides single-pane-of-glass management for QLogic's broad product line of storage and networking adapters. The 8200 Series also has API support so that it can be managed by other popular third-party management tools, including native OS management tools for networking.
- Diskless boot
 - The 8200 Series adapters support booting the server from remote storage over both the LAN and SAN. Consequently, data centers can deploy thinner servers, centralize OS image management, increase system availability, and simplify image redeployment.
- Enhanced Ethernet
 - Numerous additions to the Ethernet standard enable it to transport lossless, converged LAN and SAN traffic. The 8200 Series adapters support all of the new Ethernet standards, including 802.1Qbb (Priority-based Flow Control) and 802.1Qaz (Enhanced Transmission).
- Unmatched expertise
 - QLogic has an unparalleled advantage in delivering this new Converged Network Adapter technology. QLogic is one of the leaders in both Fibre Channel and iSCSI adapters, with years of experience providing Fibre Channel and Ethernet-based products.
- IBM Feature on Demand

- The Qlogic FCoE/iSCSI License for IBM System x (FoD) (00Y5624), enables support for full FCoE and iSCSI hardware offload through the Features on Demand (FoD) license upgrade. This support enables flexibility and investment protection by letting you buy the FCoE / iSCSI license when you need it.

Feature exchange

None

Key prerequisites

The dual port VFA II adapter can be used on supported System x servers with an available PCI Express® expansion slot. IBM System x provides end-to-end testing for select iSCSI and FCoE configurations. To reference all supported configurations, visit

<http://www-03.ibm.com/systems/support/storage/ssic/interoperability.wss>

Planned availability date

- December 17, 2012: Qlogic Dual Port 10GbE SFP+ VFA for IBM System x (90Y4600)
- February 26, 2013: Qlogic VFA FCoE/iSCSI License for IBM System x (FoD) (00Y5624)

Description

Qlogic 8200 Dual Port 10 GbE SFP+VFA for IBM System x (90Y4600) and QLogic 8200 VFA FCoE/iSCSI License for IBM System x (FoD) (00Y5624)

This high-performance, dual-port Virtual Fabric adapter for 10 Gbps Ethernet (10 GbE) networks with protocol offloads enables maximum bandwidth with minimum use of CPU resources to realize a higher level of performance.

Features: Investment protection, ease-of-use, and compatibility.

The QLogic FCoE/iSCSI License for IBM System x is an enhancement to the existing Virtual Fabric portfolio. It simplifies I/O infrastructure while also reducing overall hardware acquisition costs.

The adapter ships with the Ethernet features. FCoE and iSCSI are enabled when a client purchases the optional software license key. Specifically, clients need to purchase Qlogic FCoE/iSCSI License for IBM System x (FoD) (00Y5624).

Compatibility

- Support for popular network operating systems
- ServerProven® testing, which verifies servers and the Ethernet adapters will function properly

Product positioning

None

Product number

Option Offerings (SEOs)

Description	SEO number
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	90Y4600
Qlogic 8200 VFA FCoE/iSCSI License for IBM System x (FoD)	00Y5624

The following are features already announced for the 2582, 2583, 3331, 7158, 7160, 7382, 7383, 7912, 7914, 7915, 8722 machine types:

Description	MT	Model	Feature
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	2582	AC1 MC1	A3MR
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	2583	AC1 MC1	
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	3331	HC1	
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	7158	AC1 MC1	
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	7160	AC1 MC1	
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	7382	AC1 MC1	
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	7383	AC1 MC1	
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	7912	AC1 MC1	
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	7914	AC1 MC1	
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	7915	AC1 MC1	
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	8722	AC1 MC1	
2U Bracket for Qlogic 8200 Dual Port 10GbE SFP+ VFA	7158	AC1 MC1	A3MS
2U Bracket for Qlogic 8200 Dual Port 10GbE SFP+ VFA	7160	AC1 MC1	
2U Bracket for Qlogic 8200 Dual Port 10GbE SFP+ VFA	7914	AC1 MC1	
2U Bracket for Qlogic 8200 Dual Port 10GbE SFP+ VFA	8722	AC1 MC1	
Qlogic 8200 VFA FCoE/iSCSI License for IBM System x (FoD)	2582	AC1 MC1	A3MT
Qlogic 8200 VFA FCoE/iSCSI License for IBM System x (FoD)	2583	AC1 MC1	
Qlogic 8200 VFA FCoE/iSCSI License for IBM System			

x (FoD)	3331	HC1
Qlogic 8200 VFA FCoE/iSCSI License for IBM System		
x (FoD)	7158	AC1 MC1
Qlogic 8200 VFA FCoE/iSCSI License for IBM System	7160	AC1
x (FoD)		MC1
Qlogic 8200 VFA FCoE/iSCSI License for IBM System		
x (FoD)	7382	AC1 MC1
Qlogic 8200 VFA FCoE/iSCSI License for IBM System	7383	AC1
x (FoD)		MC1
Qlogic 8200 VFA FCoE/iSCSI License for IBM System		
x (FoD)	7912	AC1 MC1
Qlogic 8200 VFA FCoE/iSCSI License for IBM System		
x (FoD)	7914	AC1 MC1
Qlogic 8200 VFA FCoE/iSCSI License for IBM System		
x (FoD)	7915	AC1 MC1
Qlogic 8200 VFA FCoE/iSCSI License for IBM System		
x (FoD)	8722	AC1 MC1

Model conversions

None

Feature conversions

None

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM , you may link directly to Business Partner information for this announcement. A PartnerWorld® ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=112-219>

Publications

Publications are shipped with the announced product.

The IBM Systems Information Center provides you with a single information center where you can access product documentation for IBM systems hardware, operating systems, and server software. Through a consistent framework, you can efficiently find information and personalize your access. The IBM Systems Information Center is at

<http://publib14.boulder.ibm.com/infocenter/systems>

IBM Publications Center Portal

<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided, as well as payment options via credit card. A large number of publications are available online in various file formats, which can currently be downloaded free of charge.

Displayable softcopy publications: None

Source file publications: None

Services

Global Technology Services

IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an on-demand business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or visit

<http://www.ibm.com/services/>

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or visit

<http://www.ibm.com/services/continuity>

For details on education offerings related to specific products, visit

<http://www.ibm.com/services/learning/index.html>

Select your country, and then select the product as the category.

System x and BladeCenter support services

Recommended core technical support

When you buy IBM System x technology, include the support services you need -- to help keep both your hardware and software working for you, day after day, at peak performance. It is your first step toward helping to protect your investment and sustain high levels of system availability. We offer service-level and response-time options to fit your business needs. And we will help you get started with a core support package that includes:

- **Continuous system monitoring**
Electronic monitoring that helps speed up problem-solving with automated, early detection of potential problems and system errors.
- **Hardware maintenance**
World-class remote and on-site hardware problem determination and repair services.
- **Software technical support**
Access to help line calls for fast, accurate answers to your questions during installation and throughout ongoing operations.

For more information, visit

<http://www.ibm.com/servers/eserver/xseries/services.html>

Technical information

Specified operating environment

Physical specifications

QLogic 8200 Dual Port 10 GbE SFP+ VFA Adapter

- Approximate height: 167 mm (6.60 in.)
- Approximate width: 69 mm (2.71 in.)
- Approximate depth: 17.3 mm (0.6875 in.)
- Approximate weight: 95 g (0.21 lb)

Shipping dimensions

- Approximate height: 189 mm (7.51 in.)
- Approximate width: 90 mm (3.54 in.)
- Approximate depth: 38 mm (1.50 in.)
- Approximate weight: 450 g (0.99 lb)

Hardware specifications

- Ports: dual 10 Gbps Ethernet
- Form factor: Low-profile PCIe card (6.6 in. x 2.54 in.)

Agency approvals

QLogic 8200 Dual Port 10 GbE SFP+ VFA Adapter

- Safety: US, Canada, Europe
- EMI
- EMC
- EN55022
- EN55024
- EN60950 / CE
- EN 61000-3-2
- EN 61000-3-3
- IEC 950 CB Scheme
- FCC Part 15 Class A
- UL 1950
- CSA C22.2 950-95
- VCCI
- NZ AS3548 / C-tick
- RRL for MIC (KCC)
- BSMI
- UL 94-/V

Standards

Host Bus Interface Specifications

- Bus Interface: PCI Express Gen2 x8
- Host Interrupts: INTx, MSI, and MSI-X

- Compliance: PCI Express Base Specification, rev. 2.0, PCI Express Card Electromechanical Specification, rev. 2.0, PCI Bus Power Management Interface Specification, rev. 1.2

Ethernet Specifications

- Throughput: 10 Gbps full-duplex line rate per port
- Ethernet Frame : 1500 byte or 9600 byte (jumbo frame)
- Stateless Offload:
 - IP, TCP, and UDP checksum offloads
 - Large and giant send offload (LSO, GSO)
 - Large receive offload (LRO)
 - Receive side scaling (RSS)
 - Interrupt coalescing
 - VMware NetQueue
 - Microsoft™ VMQ
- Compliance :
 - IEEE: 802.3ae (10Gb Ethernet), 802.1q (VLAN), 802.3ad1 (Link Aggregation), 802.1p (Priority Encoding), 802.3x (Flow Control), IPv4 (RFQ 791), IPv6 (RFC 2460), 802.1Qbb (Priority-Based Flow Control), 802.1Qaz (Enhanced Transmission Selection)

FCoE Specifications

- Logins: Support for 2,048 concurrent logins and 2,048 active exchanges
- Port Virtualization: N_Port ID virtualization (NPIV)
- Compliance:
 - SCSI-3 Fibre Channel Protocol (SCSI-FCP), Fibre Channel Tape (FC-TAPE) Profile, SCSI Fibre Channel Protocol-2 (FCP-2), Second Generation FC Generic Services (FC-GS-2), Third Generation FC Generic Services (FC-GS-3), FCoE & FIP (FC-BB-5)

iSCSI Specifications

- Compliance:
 - RFC 3720 (iSCSI), RFC 3347 (iSCSI Requirements and Design Considerations), CHAP, iSNS, SLP

Operating environment

QLogic 8200 Dual Port 10 GbE SFP+ VFA

- Operating temperature: 0°C to 55°C (32°F to 131°F)
- Storage temperature: 20°C to 70°C (-4°F to 158°F)
- Relative humidity: 10% to 90% (noncondensing)
- Storage humidity: 5% to 95%
- Maximum cable distances (Optical) QLE824x-SR: 300 m, OM3 multi-mode fibre

Hardware requirements

This 10 GbE SFP+ Adapter must be installed in a selected System x server.

Software requirements

The QLogic 8200 Dual Port 10 GbE SFP+ VFA supports the following major operating systems:

- Microsoft Windows™ 2003

- Microsoft Windows 2008
- Red Hat Enterprise Linux™ 5
- Red Hat Enterprise Linux 6
- SUSE Linux Enterprise Server 10
- SUSE Linux Enterprise Server 11
- VMware 4
- VSphere 5.0

Compatibility

For latest compatibility information, visit

<http://www-03.ibm.com/systems/info/x86servers/serverproven/compat/us/>

Note: Some configurations may not be compatible.

Limitations

None

User group requirements

This announcement satisfies or partially satisfies the requirements from one or more of the worldwide user group communities. Groups include COMMON, COMMON Europe, Guide Share Europe (GSE), InterAction (Australia/New Zealand), Japan Guide Share (JGS), and SHARE Inc.

Planning information

Customer responsibilities

The QLogic 8200 Dual Port 10 GbE SFP+ Adapter product is designated as customer setup. Customer installation instructions are shipped with each option part.

Cable orders

None

Installability

The QLogic 8200 Dual Port 10 GbE SFP+ VFA require about 20 minutes for installation.

Installation includes unpacking, setting up, and powering on.

Packaging

QLogic 8200 Dual Port 10 GbE SFP+VFA and FCoE/iSCSI License

Product	Package description	Boxes
QLogic 8200 Dual Port 10 GbE SFP+ VFA and 8200 VFA FCoE/iSCSI License for IBM System x	Option Unit Box	1

Contents:

Dual-port SFP+ adapter
 Low profile bracket
 Quick install guide
 Documentation CD
 Important Notices Flyer

The QLogic 8200 Dual-port 10 GbE Adapter is shipped as a single package. Other items are in zipped bags.

Retail only

Packaging dimensions/weight

- Single box (HxDxW): 189 mm (7.51 in) x 38 mm (1.50 in) x 90 mm (3/54 in.)
- Package weight: 450 g (0.99 lb)

Note: All measurements are approximate.

Supplies

For end users: QLogic 8200 dual-port 10 GbE SFP+ VFA Adapter can be purchased through dealers around the world.

Security, auditability, and control

It is a customer's responsibility to ensure that the server is secure to prevent sensitive data from being removed.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

<http://www.ibm.com/support/electronic>

Terms and conditions

MES discount applicable

No

Field installable feature

Yes

Warranty period

One year.

QLogic 8200 Dual Port 10 GbE SFP+ VFA Adapter (90Y4600)

- Warranty period¹ : 1 yr.
- Service type (IOR/IOE/CCE/CCR): CRU
- Maintenance agreement: No
- Optional upgrade: No

An IBM part or feature installed during the initial installation of an IBM machine is subject to a full warranty effective on the date of installation of the machine. An IBM part or feature that replaces a previously installed part or feature assumes the remainder of the warranty period for the replaced part or feature. An IBM part or feature added to a machine without replacing a previously installed part or feature is subject to a full warranty effective on its date of installation. Unless specified otherwise, the warranty period, type of warranty service, and service level of a part or feature are the same as those for the machine in which it is installed.

¹ For information on the IBM Statement of Limited Warranty, visit

http://www.ibm.com/servers/support/machine_warranties/

Alternatively, this information is available through your IBM representative or reseller. Copies are available upon request. With respect to on-site service, IBM sends a technician after attempting to diagnose and resolve the problem remotely.

Customer setup

Yes

Machine code

No license terms apply.

Prices

For current prices, contact IBM at 888-Shop-IBM (746-7426) or visit

<http://www-03.ibm.com/systems/x/>

To locate the web price, search on the feature number in the Search field.

Description	Part number
QLogic 8200 Dual-port 10 GbE SFP+ VFA for IBM System x	90Y4600
QLogic 8200 VFA FCoE/iSCSI License for IBM System x (FoD)	00Y5624

Field install only	Plant install only	MES removal	Cables required
N	N	N	N

The following are features already announced for the 2582 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	AC1 MC1	A3MR	Initial Initial
Qlogic 8200 VFA FCoE/iSCSI License for IBM System x (FoD)	AC1 MC1	A3MT	Initial Initial

The following are features already announced for the 2583 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	AC1 MC1	A3MR	Initial Initial
Qlogic 8200 VFA FCoE/iSCSI License for IBM System x (FoD)	AC1 MC1	A3MT	Initial Initial

The following are features already announced for the 3331 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	HC1	A3MR	MES	Yes
Qlogic 8200 VFA FCoE/iSCSI License for IBM System x (FoD)	HC1	A3MT	MES	Yes

The following are features already announced for the 7158 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	AC1 MC1	A3MR	Initial Initial
2U Bracket for Qlogic 8200 Dual Port 10GbE SFP+ VFA	AC1 MC1	A3MS	Initial Initial
Qlogic 8200 VFA FCoE/iSCSI License for IBM System x (FoD)	AC1 MC1	A3MT	Initial Initial

The following are features already announced for the 7160 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	AC1	A3MR	Initial
	MC1		Initial
2U Bracket for Qlogic 8200 Dual Port 10GbE SFP+ VFA	AC1	A3MS	Initial
	MC1		Initial
Qlogic 8200 VFA FCoE/iSCSI License for IBM System x (FoD)	AC1	A3MT	Initial
	MC1		Initial

The following are features already announced for the 7382 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	AC1	A3MR	Initial
	MC1		Initial
Qlogic 8200 VFA FCoE/iSCSI License for IBM System x (FoD)	AC1	A3MT	Initial
	MC1		Initial

The following are features already announced for the 7383 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	AC1	A3MR	Initial
	MC1		Initial
Qlogic 8200 VFA FCoE/iSCSI License for IBM System x (FoD)	AC1	A3MT	Initial
	MC1		Initial

The following are features already announced for the 7912 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	AC1	A3MR	Initial
	MC1		Initial
Qlogic 8200 VFA FCoE/iSCSI License for IBM System x (FoD)	AC1	A3MT	Initial
	MC1		Initial

The following are features already announced for the 7914 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	AC1 MC1	A3MR	Initial Initial
2U Bracket for Qlogic 8200 Dual Port 10GbE SFP+ VFA	AC1 MC1	A3MS	Initial Initial
Qlogic 8200 VFA FCoE/iSCSI License for IBM System x (FoD)	AC1 MC1	A3MT	Initial Initial

The following are features already announced for the 7915 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	AC1 MC1	A3MR	Initial Initial
Qlogic 8200 VFA FCoE/iSCSI License for IBM System x (FoD)	AC1 MC1	A3MT	Initial Initial

The following are features already announced for the 8722 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	AC1 MC1	A3MR	Initial Initial
2U Bracket for Qlogic 8200 Dual Port 10GbE SFP+ VFA	AC1 MC1	A3MS	Initial Initial
Qlogic 8200 VFA FCoE/iSCSI License for IBM System x (FoD)	AC1 MC1	A3MT	Initial Initial

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