



IBM WebSphere DataPower Integration Appliance XI50 for zEnterprise

Table of contents

1	Overview	5	Product number
2	Key prerequisites	6	Publications
2	Planned availability date	7	Technical information
2	Description	13	Pricing
4	Product positioning	14	Order now
5	Statement of general direction		

At a glance

The IBM® zEnterprise BladeCenter® Extension (zBX) Model 002 is part of the zEnterprise System, built to support the multiplatform environment. Today IBM fulfills a Statement of Direction and introduces support for the WebSphere® DataPower® Appliance in the zBX as described in Hardware Announcement [110-177](#), dated July 22, 2010, "IBM zEnterprise BladeCenter Extension (zBX)."

The IBM WebSphere DataPower Integration Appliance XI50 for zEnterprise (DataPower XI50z), integrated into the zEnterprise System, is a high-performance hardware appliance that:

- Provides fast and flexible integration with any-to-any transformation between disparate message formats with integrated message-level security and superior performance
- Provides web services enablement for core System z® applications to enable web-based workloads
- Enables SOA and XML applications with System z web services for seamless integration of distributed and System z platforms
- Offers standards-based, centralized System z governance, and extreme reliability through integrated operational controls, "call home," and integration with RACF® security through a secured private network

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

Overview

The IBM WebSphere DataPower Integration Appliance XI50 for zEnterprise (DataPower XI50z) is the latest addition to the zEnterprise integrated infrastructure. DataPower XI50z is a multifunctional appliance that can help provide multiple levels of XML optimization, streamline and secure valuable service-oriented architecture (SOA) applications, and provide drop-in integration for heterogeneous environments by enabling core Enterprise Service Bus (ESB) functionality, including routing, bridging, transformation, and event handling. It can help to simplify, govern, and enhance the network security for XML and web services.

The zEnterprise BladeCenter Extension (zBX) is the new infrastructure for extending tried and true System z qualities of service and management capabilities across a set of integrated compute elements in the zEnterprise System.

When the DataPower XI50z is installed within the zEnterprise environment, zManager will provide integrated management for the appliance to simplify control and operations including change management, energy monitoring, problem detection, problem reporting, and dispatching of an IBM System z Service Representative as needed.

Feature exchange

None.

Key prerequisites

Refer to the [Hardware requirements](#) and [Software requirements](#) sections of this announcement.

Planned availability date

- March 18, 2011
 - IBM WebSphere DataPower Integration Appliance XI50 for zEnterprise
- March 31, 2011
 - MES upgrades for DataPower XI50z
- The zBX 2458 Model 002 is currently available in the following countries:
 - Argentina, Bahrain, Brazil, Chile, China, Croatia, Egypt, Israel, Mexico, Russia, Saudi Arabia, South Korea, Ukraine, United Arab Emirates, Yemen
- The planned availability date for the zBX 2458 Model 002 has moved to first quarter 2011 for the following countries:
 - South Africa
- The planned availability date for the zBX 2458 Model 002 has moved to second quarter 2011 for the following countries:
 - Indonesia

Description

IBM is introducing the IBM zEnterprise BladeCenter Extension (zBX) support for DataPower. The DataPower XI50z appliance is a front-end server to help manage and optimize XML messages in a SOAP or HTTP format. It allows:

- Monitoring of messages such as by response times, message rates, or message sizes by transaction type.
- Parsing of messages to allow specific routing based on Quality of Service requirements by user or transaction type.
- The ability to take synchronous or asynchronous action based on the message, such as additional database calls to add to the message, or to modify the message content.
- Optimization of message processing by managing protocol, encryption, and security fields. It then can forward to the System z just the message data content.
- Management of the application firewall to provide security, XML-threat protection, or digital certification. It can validate messages by looking at the user, the fields being referenced, and the message format.
- Conversion of XML to more efficient protocols than the SOAP or HTTP format, such as WebSphere MQ.

More information on the DataPower XI50z appliance may be found in Hardware Announcement [110-089](#), dated April 27, 2010, "Optimized IT with the next-generation IBM WebSphere DataPower Integration Blade," together with Software

Announcement [210-108](#), dated April 27, 2010, "IBM WebSphere DataPower Integration Blade XI50B and Remote Support, and WebSphere DataPower firmware V3.8.1," as well as in

<http://www.ibm.com/software/integration/datapower/>

<http://www.ibm.com/software/integration/datapower/xi50/>

The zBX provides additional benefits to the DataPower appliance environment in the areas of:

- Blade hardware management
 - Improved cooling and power management controls, includes cooling of the frame and energy monitoring and management of the DataPower blades
 - Virtual network provisioning
 - Call-home for current and expected problems with automatic dispatch of IBM SSR
- Hardware Management Console integration
 - Single view showing the System z environment together with the DataPower blades in an overall hardware operational perspective
 - Group GUI operations for functions supported on HMC such as activate or deactivate blades
- Improved availability
 - Guided placement of blades to optimize built-in redundancy in all components at the rack, BladeCenter, and HMC levels, including top of rack switch, ESM switches, and physical network.
 - Detection and reporting by the HMC/SE on appliance failures. The HMC/SE can also be used to re-cycle the DataPower appliance.
- Networking
 - Virtual network provisioning
 - Enforced isolation of network traffic via VLAN support
 - 10Gb end-to-end network infrastructure
 - Built-in network redundancy
 - Network protection via IEDN, possibly obviating any perceived need for encryption of flows between DataPower and the target back-end System z server
- Monitoring and reporting
 - Monitoring and reporting of DataPower hardware health and degraded operation via HMC
 - Monitoring of all hardware, call-home, and auto-parts replacement
 - Consolidation and integration of DataPower hardware problem reporting with other problems reported in zBX
- System z value
 - Simplified ordering of the DataPower appliance via System z allows the proper blade infrastructure to be transparently ordered.
 - Simplified upgrades keep MES history so the upgrades flow based on what is installed.
 - System z service on the zBX and DataPower blade with a single point of service provides 24x7 maintenance with IBM SSR support.
 - The DataPower appliance becomes part of the data center and comes under data center control.

In addition, although not specific to the zBX environment, dynamic load balancing to DataPower appliances is available using the z/OS® Communications Server Sysplex Distributor.

DataPower improves System z resources utilization

More information on DataPower is available at

<http://www.ibm.com/software/integration/datapower/>

2462 Model 4BX configuration

The 2462 Model 4BX is designed to work together with the IBM 2458 Model 002 zBX. It is functionally equivalent to an IBM 4195-4BX with similar feature codes. When you configure the IBM 2458 Model 002 with feature code 0611, it will provide a hardware order for the IBM 2462 Model 4BX and its hardware feature codes and a software and software maintenance order for the required software features. The IBM 2462 Model 4BX is available with two optional software programs.

More information on the z196 use of zBX can be found in Hardware Announcement [110-170](#), dated July 22, 2010, as well as the following two websites

<http://www.ibm.com/systems/zenterprise>

<http://www.ibm.com/systems/zenterprise196>

The IBM 2462 Model 4BX is ordered by ordering certain feature codes for the 2458-002. The 2462 order may generate an order for required 2458 hardware necessary to support the 2462.

Availability and service

Please review the [Warranty service](#) section of this announcement for further information about the increased support provided.

Accessibility by people with disabilities

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Section 508 of the U.S. Rehabilitation Act

The 2462 Model 4BX is capable on delivery, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act of 1973, 29 U.S.C. Section 794d, as implemented by 36 C.F.R. Part 1194, provided that any Assistive Technology used with the Product properly interoperates with it.

Product positioning

Physical integration increases collaborative synergy across DataPower and zEnterprise environments. Benefits are seen in the areas of:

- Configuration management: Broad integration with System z
- Subsystem: Higher performance with multiple levels of XML optimization
- Networking: Comprehensive load distribution and HA options
- Security: Higher levels of security assurance certifications available with hardware
- Management: Simplified deployment and ongoing management
- Tooling: Consistent tooling across IBM product family

Statement of general direction

The IBM zEnterprise 196 (z196) will be the last high-end server to support ESCON® channels.

IBM plans not to offer ESCON channels as an orderable feature on high-end System z servers that follow the z196 (machine type 2817). In addition, ESCON channels cannot be carried forward on an upgrade to such a follow-on server. This plan applies to channel path identifier (CHPID) types CNC, CTC, CVC, and CBY and to feature numbers 2323 and 2324. System z customers should continue migrating from ESCON to FICON®. Alternate solutions are available for connectivity to ESCON devices. IBM Global Technology Services offers an ESCON to FICON Migration solution, Offering ID #6948-97D, to help facilitate migration from ESCON to FICON. This offering should help customers to simplify and manage a single physical and operational environment.

All statements regarding IBM's plans, directions, and intent are subject to change or withdrawal without notice. Any reliance on these statements of general direction is at the relying party's sole risk and will not create liability or obligation for IBM.

Product number

Description	Machine		Feature
	type	Model	
IBM zEnterprise 196	2817	M15 M32 M49 M66 M80	
Manage FW DP			0040
Automate FW DP			0044

Description	Machine		Feature
	type	Model	
zEnterprise BladeCenter Extension	2458	002	
DP Blade			0611

Description	Machine		Feature
	type	Model	
DataPower XI50z	2462	4BX	
WebSphere DP Basic Enablem			0650
WS DP OPT Tivoli® A Mng			0651
WS DP OPT TIBCO Preload			0652
WS DP OPT DTB Connect Prel			0653
WS DP OPT Applicat Preloa			0654
Month Indicator			0660
Day Indicator			0661
Hour Indicator			0662
Minute Indicator			0663

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=111-012>

Education support

Visit the following website for additional information

<http://www.ibm.com/training/us>

Call IBM IT Education Services at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

Publications

The following publications are available now in the *Library* section of Resource Link™:

Title	Order number
zEnterprise BladeCenter Extension Installation Manual - Physical Planning 2458-002	GC27-2611
zEnterprise 196 System Overview	SA22-1086
System z Functional Matrix	ZSW0-1335

The following publications are shipped with the product and available in the *Library* section of Resource Link:

Title	Order number
zEnterprise BladeCenter Extension Model 002 Installation Manual	GC27-2610
zEnterprise BladeCenter Extension Service Guide	GC28-6884

The following publications will be available at planned availability in the *Library* section of Resource Link:

Title	Order number
zEnterprise System Hardware Management Console Operations Guide for Ensembles	SC27-2606
zEnterprise System Ensemble Performance Management Guide	GC27-2607
zEnterprise System Ensemble Planning and Configuring Guide	GC27-2608
zEnterprise System Introduction to Ensembles	GC27-2609

Publications for DataPower XI50z can be obtained at Resource Link by accessing the following website

<http://www.ibm.com/servers/resourcelink>

Using the instructions on the Resource Link panels, obtain a user ID and password. Resource Link has been designed for easy access and navigation. The following Redpaper publication will provide additional information, once it becomes available:

Title	Order number
Using IBM System z as the foundation for your information management architecture	REDP4606

For other IBM Redbooks® publications, refer to

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

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.

Technical information

Specified operating environment

Physical specifications

Dimensions

	Depth	width	Height
- Inches	18.0	2.32	9.65
- Millimeters	457.0	59.0	245.0

The DataPower blades are double width. Each takes up two BladeCenter slots, so the maximum number of DataPower blades per BladeCenter is 7. The maximum number of DataPower blades per zBX is 28.

Approximate weight per blade

weight per blade

- kg	7.4
- lb	16.3

Operating environment

- Temperature:
 - 10 to 35.0 degrees C (50 to 95 degrees F) at 0 to 914 m (0 to 3,000 ft)
 - 10 to 32.0 degrees C (50 to 90 degrees F) at 914 to 2,133 m (3,000 to 7,000 ft)
- Relative humidity: 8% to 80%
- Maximum altitude: 2,133 m (7,000 ft)

This system supports or complies with the following standards:

- Multiprocessor Specification (MPS) 1.4
- Hardware-enabled to meet the International Organization for Standardization (ISO) 9241, Part 3 Equipment approvals and safety
- FCC - Verified to comply with Part 15 of the FCC Rules, Class A
- Canada ICES-003, issue 3, Class A
- UL 60950-1 Safety of Information Technology Equipment
- CSA C22.2 No.60950-1 Safety of Information Technology Equipment

Hardware requirements

You should review the PSP buckets for minimum Machine Change Levels (MCLs) and software PTF levels before installing the blades. To support new functions and features, MCLs and PTFs are required.

Descriptions of the MCLs and PTFs are available now through Resource Link.

Access Resource Link at

<http://www.ibm.com/servers/resourcelink>

Select:

- Fixes, Hardware, Exception Letters
- Click on zEnterprise 196
- Click on Driver xx Customer Exception Letter

The most recent driver information is at the top of the list.

Peripheral hardware and device attachments

The IBM WebSphere DataPower Integration Appliance XI50 for zEnterprise does not require use of external devices.

Software requirements

Sysplex Distributor support for DataPower requires:

- z/OS V1R11 for IPv4 communications with DataPower
- z/OS V1R12 for IPv4 and IPv6 communications with DataPower

Every 2462 Model 4BX requires "IBM WEBSPH DP INT BLADE XI50B," PID number 5765-G84.

PID	Feature code	Description
5765-G84		IBM WEBSPH DP INT BLADE XI50B
	0001	License with 1 year SWMA
	0002	Option for TIBCO
	0003	Option for Application Optimization
	0004	Option for Database Connectivity
	0005	Option for Tivoli Access Manager

Every IBM 2462 Model 4BX requires feature codes 0001, 0003, and 0005. Feature codes 0002 and 0004 are available if TIBCO or Database Connectivity are requested.

1 Year Registration or 1 Year Renewal

PID	Feature code	Description
-----	--------------	-------------

5765-G85		IBM WBSPPH DP INT BL XI50B R R
	0001	No Charge 1 yr Registration
	0003	SW Maint 1 yr Renewal

1 Year Reinstatement (After License)

PID	Feature code	Description
5765-G86	0001	IBM WBSPPH DP INT BL XI50B MNT 12M Maintenance Reinstatement 12 mo

3 Year Registration

PID	Feature code	Description
5765-G87	0001	IBM WBSPPH DP INT BL XI50B 3YR REG 3-year Registration

3 Year Renewal

PID	Feature code	Description
5765-G88	0001	IBM WBSPPH DP INT BL XI50B 3YR REN 3-year Renewal

3 Year Reinstatement After License

PID	Feature Code	Description
5765-G89	0001	IBM WBSPPH DP INT BL XI50B 3YR AFL 3-year After License

Planning information

Customer responsibilities

Information on customer responsibilities for site preparation can be found in the Library section of Resource Link at

<http://www.ibm.com/servers/resourcelink>

Cabling responsibilities

Fiber optic cables, cable planning, labeling, and placement are all customer responsibilities for new installations and upgrades. Fiber optic conversion kits and Mode Conditioning Patch (MCP) cables are not orderable as features on a DataPower XI50z. Installation Planning Representatives (IPRs) and System Service Representatives (SSRs) will not perform the fiber optic cabling tasks without a services contract.

The following tasks are required to be performed by the customer prior to machine installation:

- All fiber optic cable planning.
- All purchasing of correct fiber optic cables.
- All installation of any required Mode Conditioning Patch (MCP) cables.
- All installation of any required Conversion Kits.
- All routing of fiber optic cables to correct floor cutouts for proper installation to server.

Additional service charges may be incurred during the server installation if the above cabling tasks are not accomplished as required.

For further details also refer to the *Installation Manual for Physical Planning (IMPP)*, available on Resource Link.

Note: IBM Site and Facilities Services can satisfy your fiber optic as well as your copper cabling requirements.

Installability

The IBM 2462 Model 4BX will come installed in the IBM 2458 Model 002 for new builds and will be installed by an IBM SSR if ordered separately.

Security, auditability, and control

The DataPower XI50z uses the security and auditability features and functions of host hardware, host software, and application software.

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

IBM Global Financing

Yes

Warranty period

One year.

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.

Warranty service

If required, IBM provides repair or exchange service depending on the types of warranty service specified for the machine. IBM will attempt to resolve your problem over the telephone, or electronically via an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines on-site service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts.

Service levels are response-time objectives and are not guaranteed. The specified level of warranty service may not be available in all worldwide locations. Additional charges may apply outside IBM's normal service area. Contact your local IBM representative or your reseller for country- and location-specific information.

Warranty service

zBX provides increased service over normal blades with the following characteristics:

- IBM intends to deliver the enhanced System z model of service and support for all IBM blade products that are supported for use in the zBX when such products are installed in a zBX. The enhanced service and support for DataPower blades is intended to be available when the blades are installed in a zBX against machine type 2462. This service model includes 24x7 on-site support, including FRU replacement by the client's local Service Support Representative (SSR), during the zBX's warranty period. As such, a customer who installs supported IBM blades and acquires the requisite feature code on the zBX will receive the benefits of the zBX warranty service. This practice is valid unless the customer removes the blade and requests to have such service delivered according to the blade's entitlement.
- For software licensed under IPLA terms, a Software Maintenance Agreement (SWMA) must be active for IBM to service or otherwise provide support for that software. SWMA must be active for the IBM software that runs on the DataPower XI50z blade in order to obtain service or other support for the IBM software. Failure to maintain SWMA will result in the customer not being able to obtain service for the IBM software, even if the DataPower XI50z blade is under warranty or post-warranty IBM hardware maintenance service contract.

DataPower Software Maintenance Agreements (SWMA)

1 Year Registration or 1 Year Renewal

PID	Feature Description code
5765-G85	IBM WEBSPH DP INT BLADE XI50B R R
	0001 No Charge 1 yr Registration
	0003 SW Maint 1 yr Renewal

For software PID number 5765-G85, every IBM 2462 Model 4BX includes feature code 0001. Feature code 0003 is available at the end of the first year to renew SW maintenance for one more year.

1 Year Reinstatement (After License)

PID	Feature Description code
-----	-----------------------------

5765-G86 IBM WEBSPH DP INT BLADE XI50B MNT 12M

0001 Maintenance Reinstatement 12 mo

For software PID number 5765-G86, feature code 0001 is available if SW PID 5765-G85 feature code 0003 wasn't ordered before the one year expired.

3 Year Registration

PID Feature Description
code

5765-G87 IBM WEBSPH DP INT BLADE XI50B 3YR REG

0001 3-year Registration

For software PID number 5765-G87 feature code 0001 can be ordered instead of SW PID 5765-G85 feature code 0003 to make the initial period 3 years, instead of 1 year.

3 Year Renewal

PID Feature Description
code

5765-G88 IBM WEBSPH DP INT BLADE XI50B 3YR REN

0001 3-year Renewal

For software PID number 5765-G88, feature code 0001 can be used as alternative to SW PID 5765-G85 feature code 0003 if a 3 year renewal is desired. The maximum duration is 5 years.

3 Year Reinstatement After License

PID Feature Description
code

5765-G89 IBM WEBSPH DP INT BLADE XI50B 3YR AFL

0001 3-year After License

For software PID number 5765-G89, feature code 0001 is available if SW PID 5765-G85 feature code 0003 wasn't ordered before the one year expired if a 3 year renewal is desired.

The specified level of maintenance service may not be available in all worldwide locations. Additional charges may apply outside IBM's normal service area. Contact your local IBM representative or your reseller for country- and location-specific information.

For machines serviced by IBM during warranty or under post-warranty IBM maintenance service agreements, IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose.

The following service is available as warranty for your machine type.

- 24 hours per day, 7 days a week, same day response

Warranty service upgrades

The specified level of maintenance service may not be available in all worldwide locations. Additional charges may apply outside IBM's normal service area. Contact your local IBM representative or your reseller for country- and location-specific information.

IBM On-site Service: IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose.

The following service is provided.

- 24 hours per day, 7 days a week, same day response

Warranty service upgrades

Usage plan machine

No

IBM hourly service rate classification

Three

When a type of service involves the exchange of a machine part, the replacement may not be new, but will be in good working order.

Field-installable features

Yes

Model conversions

No

Machine installation

Installation is performed by IBM. IBM will install the machine in accordance with the IBM installation procedures for the machine. In the United States, contact IBM at 1-800-IBM-SERV (426-7378).

Graduated program license charges apply

No

Licensed Internal Code and Licensed Machine Code

This product does not contain Licensed Internal Code or Licensed Machine Code.

Pricing

For all local charges, contact your IBM representative.

Description	Mach type	Mod Feat	EW **	MMMC fe	Init/indicat	MES
IBM zEnterprise 196	2817	M15			X	
		M32			X	
		M49			X	
		M66			X	
		M80			X	
Manage FW DP		0040	**			Both
Automate FW DP		0044	**			Both

** If field installed on a purchased machine, parts removed or replaced become the property of IBM and must be returned.

Note: Column 'EW fe' is Electronic Waste Recycling Fee.

Y1: Subject to \$6.00 fee(4-14" video device)
 Y2: Subject to \$8.00 fee(15-34" video device)

Description	Mach type	Mod Feat	EW **	MMMC fe indicat	Init/ MES
ZBX	2458	002		X	
DP Blade		0611	**	X	Both

** If field installed on a purchased machine, parts removed or replaced become the property of IBM and must be returned.

Note: Column 'EW fe' is Electronic Waste Recycling Fee.
 Y1: Subject to \$6.00 fee (4-14" video device)
 Y2: Subject to \$8.00 fee (15-34" video device)

Description	Mach type	Mod Feat	EW **	MMMC fe indicat	Init/ MES
DataPower XI50z	2462	4BX		X	
websphere DP Basic Enablem		0650	**	X	Both
WS DP OPT Tivoli A Mng		0651	**		Both
WS DP OPT TIBCO Preload		0652	**		Both
WS DP OPT DTB Connect Prel		0653	**		Both
WS DP OPT Applicat Preloa		0654	**		Both
Month Indicator		0660	**		Both
Day Indicator		0661	**		Both
Hour Indicator		0662	**		Both
Minute Indicator		0663	**		Both

** If field installed on a purchased machine, parts removed or replaced become the property of IBM and must be returned.

Note: Column 'EW Fe' is Electronic Waste Recycling Fee.
 Y1: Subject to \$6.00 fee (4-14" video device)
 Y2: Subject to \$8.00 fee (15-34" video device)

For ServiceElect (ESA) maintenance service charges, contact IBM Global Services at 888-IBM-4343 (426-4343).

IBM Global Financing

IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit

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

IBM Global Financing offerings are provided through IBM Credit LLC in the United States, and other IBM subsidiaries and divisions worldwide to qualified commercial and government customers. Rates are based on a customer's credit rating, financing terms, offering type, equipment type, and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

Order now

To order, contact the Americas Call Centers or your local IBM representative, or your IBM Business Partner.

To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968).

Phone: 800-IBM-CALL (426-2255)
Fax: 800-2IBM-FAX (242-6329)
Internet: callserv@ca.ibm.com
Mail: IBM Teleweb Customer Support
ibm.com® Sales Execution Center, Americas North
3500 Steeles Ave. East, Tower 3/4
Markham, Ontario
Canada
L3R 2Z1

Reference: YE001

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

Trademarks

Resource Link and Electronic Service Agent are trademarks of IBM Corporation in the United States, other countries, or both.

IBM, BladeCenter, WebSphere, DataPower, System z, RACF, z/OS, ESCON, FICON, Tivoli, Redbooks and ibm.com are registered trademarks of IBM Corporation in the United States, other countries, or both.

Other company, product, and service names may be trademarks or service marks of others.

Terms of use

IBM products and services which are announced and available in your country can be ordered under the applicable standard agreements, terms, conditions, and prices in effect at the time. IBM reserves the right to modify or withdraw this announcement at any time without notice. This announcement is provided for your information only. Additional terms of use are located at

<http://www.ibm.com/legal/us/en/>

For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

<http://www.ibm.com/planetwide/us/>