



IBM WebSphere DataPower XC10 caching appliance can save time, money, and rackspace

Table of contents

1	Overview	6	Publications
2	Planned availability date	7	Technical information
2	Description	9	Terms and conditions
4	Product positioning	14	Pricing
5	Product number	16	Order now

At a glance

This new appliance offers an innovative, pragmatic approach to harness the power of distributed caching as a complete, purpose-built, easy-to-use solution. It allows you to leverage the value of your existing infrastructure investments. The DataPower® XC10 appliance lets you bring higher performance, fault tolerance, and scalability to common distributed caching scenarios including:

- HTTP session replication
- Extended Dynamic Cache service of WebSphere® Application Server
- Web side-cache accessed via a network connection

A large (160 GB), remote, partitioned, replicated, scalable data cache can be used for storage of simple key/value pairs. This cache can be utilized instead of a back-end database to provide increased application scalability and performance.

The DataPower XC10 appliance can offer:

- Reduced hosting charges / processing on more expensive systems (lower cost per transaction)
- A mechanism to free up strategic systems to do more important work
- Better scalability and support for future growth (no bottlenecks)
- More robust support for cross data-center data replication

For ordering, contact your IBM® representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: NE001).

Overview

IBM DataPower XC10 appliance is a purpose-built, easy-to-use appliance designed for simplified deployment, exceptional performance, and hardened security at the caching tier of your enterprise application infrastructure. It adds distributed caching functions to the IBM DataPower line of appliances, enabling your business-critical applications to scale cost effectively with consistent performance.

The DataPower XC10 appliance is designed for simple installation and rapid use ("plug-and-play") with WebSphere Application Server V6.1 and V7.0, where it can deliver a cost-effective distributed caching solution in support of common distributed caching scenarios such as HTTP Session Replication, and Web side-cache accessed via a network connection. DataPower XC10's fault tolerance and large 160 GB cache

can enable you to achieve better performance and scalability with the Dynamic Cache Service of WebSphere Application Server.

The DataPower XC10 appliance offers the following benefits for consistent and predictable performance for your business-critical applications:

- Easy use for common distributed caching scenarios with little or no code changes to existing applications
- Ability to quickly and easily increase cache capacity and throughput as needs grow
- Flexible and simple user management interface for monitoring and administration
- Large 160 GB cache for potential near-linear scalability
- Fault tolerance for higher user satisfaction, faster task completion, and increased e-commerce conversion rates

Feature exchange

Not applicable

Planned availability date

June 22, 2010

Description

Maximize performance and availability while scaling simply and cost-effectively

Today's dynamic business environments and economic uncertainty mean organizations must work smarter to remain competitive and responsive to changing customer demands. Key to working smarter is business agility and cost optimization. Our planet is becoming increasingly smart and interconnected. As more people around the planet join the digital world, they drive exponential growth of business and non-business transactions for everything from Web commerce and RFID processing in dynamic supply chains to on-line banking and social networking. In order to meet these demands, you need to ensure that critical applications experiencing huge demand levels, and requiring immediate response times, can satisfy those criteria.

The DataPower XC10 appliance is a purpose-built, easy-to-use unit designed for simplified deployment, exceptional performance, and hardened security at the caching tier of your enterprise application infrastructure. It incorporates and builds upon the IBM DataPower line of appliances from IBM, adding distributed caching functions that enable your business-critical applications to scale cost effectively with consistent performance.

The DataPower XC10 appliance is designed for simple installation and use with WebSphere Application Server V6.1 and V7.0, where it can deliver a cost-effective distributed caching solution in support of common distributed caching scenarios like HTTP Session Replication, getting better performance and scalability from the Dynamic Cache Service of WebSphere Application Server. With minimal application code changes, the DataPower XC10 appliance can also provide an easy to use Web side-cache accessed via a network connection.

HTTP session replication

The WebSphere DataPower XC10 appliance can provide the quickest, least invasive option for handling HTTP session management, so that costly application changes are not needed. This specialized, purpose-built, appliance can bring a number of benefits including higher qualities of service across scenarios spanning application server cell boundaries and even heterogenous application server environments.

- Higher qualities of service - The DataPower XC10 appliance can provide faster and more robust replication than WebSphere Application Server alone. It can provide an assured level of replication as it will retry saving a session object if the initial attempt fails. Additionally, HTTP session data can be replicated without the performance overhead seen when using the synchronous replication in WebSphere Application Server.
- With the DataPower XC10 appliance, session data is not restricted to a WebSphere Application Server cell boundary as they are with WebSphere Application Server on its own. The DataPower XC10 appliance was built to serve as a easily installed solution outside WebSphere Application Server and automatically sets up stand-alone grid clusters that can be used by many applications and cells.
- Cross application and platform access - It can be easy to configure the DataPower XC10 appliance to allow different applications to access the session object for the same user. Because it does not have a dependency on WebSphere Application Server, this replication can actually be from non-WebSphere Application Server environments such as WebSphere Application Server Community Edition (based on Apache Geronimo).

Extension for WebSphere Application Server (WAS) Dynamic Cache Service

The DataPower XC10 appliance provides a consistent, distributed cache for enterprise applications running on WebSphere Application Server. The Dynamic Cache API (informally known as DynaCache) is available to Java™ Extended Edition (Java EE) applications that are deployed in WebSphere Application Server and can be leveraged to cache business data, generated HTML, or to synchronize the cached data in the cell by using the data replication service (DRS). Previously, the only service provider for the Dynamic Cache API was the default dynamic cache engine built into WAS.

With the DataPower XC10 appliance, you can now use the dynamic cache service provider interface in WAS to plug into the Dynamic Cache. By setting up this capability, you can enable applications written with the Dynamic Cache API or applications using container-level caching (such as servlets) to leverage the features and performance capabilities of the DataPower XC10 appliance, including replication over the network, high availability, scalability and cache partitioning.

Elastic Dynacache (Plug-in for WebSphere Application Server Dynacache) provides more efficient storage of data in a grid rather than multiple redundant copies that are difficult to keep synchronized.

Web side-cache

Each DataPower XC10 unit provides a large 160 GB cache that is to the side of the application (not within the same Java Virtual Machine), allowing it to be accessed via a network connection. This can

- Accelerate your applications' performance by putting your data closer to your applications/service
- Reduce power consumption and rack space
- Lower your dependencies on more expensive systems and data bases.

DataPower XC10's fault tolerance means higher user satisfaction, faster task completion, and increased conversion rates.

For additional information on WebSphere DataPower XC10 appliance, visit

<http://www.ibm.com/XTP> (for the Extreme Transaction Processing landing page),
and
<http://www.ibm.com/software/webservers/appserv/xc10> (for complete DataPower XC10 product details.)

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

Product positioning

The DataPower XC10 appliance complements the WebSphere Application Server family of products providing a distributed caching platform for WebSphere business applications and can run with any WebSphere Application Server V6.1 and V7.0. The appliance provides a purpose-built network attached cache whereas IBM software offerings such as WebSphere eXtreme Scale and WebSphere Business Events eXtreme Scale enable more sophisticated caching scenarios where the applications and cached data may be located on the same server. WebSphere Business Events eXtreme Scale software integrates WebSphere eXtreme Scale and WebSphere Business events into a single product supporting customers with high volumes of business events flowing through their enterprise.

The DataPower XC10 appliance can provide excellent value to customers whose business-critical Web applications

- Need to offer automatic failover of Web sessions
- Can not tolerate session failures which result in lost revenue and user satisfaction problems
- Use the WebSphere Application Server Dynacache service
- Demand better performance and scalability of their caching investment
- Need faster task completion and increased e-commerce conversion rates

Examples:

- e-commerce sites where the session is a shopping cart
- Web sites that cache catalog data, master data, or user profiles
- Enterprise applications that access multiple systems
- e-commerce sites whose performance gets worse as transaction volumes grow

Reference information

For information about WebSphere eXtreme Scale V7.1 and IBM WebSphere DataPower XC10 Support Registration, refer to Software Announcement [210-125](#), dated April 30, 2010.

Product number

Description	Machine	Model
IBM WebSphere DataPower XC10	9235	92X

Specify features

Description	Machine	Model	Feature
Line cord - 2.8m, 10A/250V, C13 to GB 2099.1 (China)	9235	92X	6210
Line cord - 2.8m, 10A/250V, C13 to AS/NZ 3112 (Australia/NZ)	9235	92X	6211
Line cord - 2.8m, 10A/250V, C13 to IEC 309 Type 2P + Gnd (Europe)	9235	92X	6212
Line cord - 2.8m, 10A/250V, C13 to DK2-5a (Denmark)	9235	92X	6213
Line cord - 2.8m, 10A/250V, C13 to SABS 164 (S Africa)	9235	92X	6214
Line cord - 2.8m, 10A/250V, C13 to BS 1363/A (UK)	9235	92X	6215
Line cord - 2.8m, 10A/250V, C13 to SEV 1011-S24507 (Swiss)	9235	92X	6216
Line cord - 2.8m, 220-240V, C13 to IMQ CEI 23-16 (Italy/Chile)	9235	92X	6217
Line cord - 2.8m, 10A/250V, C13 to SI 32 (Israel)	9235	92X	6218
Line cord - 2.8m, 12A/100V, C13 to KETI (Korea)	9235	92X	6219
Line cord - 2.8m, 10A/250V, C13 to IRAM 2073 (Argentina)	9235	92X	6222
Line cord - 2.8m, 10A/125V, C13 to IEC320 (Brazil)	9235	92X	6223
Line cord - 2.8M 10A/250V, C13(2P+Gnd) (India)	9235	92X	6269
Line cord - 2.8m, 10A/125V, C13 to NEMA 5-15P (US)	9235	92X	6313
Line cord - 2.8m, 12A/100V, C13 to JIS C-8303(Japan)	9235	92X	6314
Line cord - 2.8m, 10A/125V, C13 to CNS 10917-3 (Taiwan)	9235	92X	6386

Model conversions

Not applicable

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=110-102>

Publications

WebSphere XC10 publications are available on the Doc Browser CD and the Resource CD included with the IBM WebSphere DataPower XC10 appliance.

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

The product publications are offered in displayable softcopy form. All publications are included. The files are shipped on CD-ROM with the IBM WebSphere DataPower XC10.

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

- Height: 1.7 in (4.32 cm)
- Width: 19 in (48.25 cm) EIA BKT to EIA BKT
 - 19.13 in (48.59 cm) -- With Rail
 - 17.24in (43.78 cm) -- Chassis only without EIA bkt
 - 19.13 in (48.59 cm) -- With Rail
 - 17.24 in (43.78 cm) -- Chassis only without EIA bkt
- Depth: 33.05 in (83.94 cm) -- With Rail 28.14 in (71.48 cm) -- Front to the rear handle
- Weight: 37.48 lb (17 kg)

The IBM 9235 DataPower XC10 appliance must be installed in an EIA-310-D 19-in. rack with at least 28 in. of depth (from rail flange to flange).

To assure installability and serviceability in non-IBM industry-standard racks, review the installation planning information for any product-specific installation requirements.

Standards

- FCC - Verified to comply with Part 15 of the FCC Rules, Class A
- Canada ICES-003, issue 4, Class A
- UL/IEC 60950-1
- CSA C22.2 No. 60950-1-03
- NOM-019

Operating environment

- Temperature
 - 10.0 to 35.0 degrees C (50 to 95 degrees F) at 0 to 914 m (0 to 3,000 ft)
 - 10.0 to 32.0 degrees C (50 to 90 degrees F) at 914 to 2,133 m (3,000 to 7,000 ft)
- Powered off: 10 to 43 degrees C (50 to 109.4 degrees F), maximum altitude: 2133.6 m (7,000 ft.)
- Relative humidity: 8% to 80%

Shipping environment

- Temperature: -40 to 60 degrees C (-40 to 140 degrees F)
- Relative humidity: 8% to 80%

Machine acoustics

Fan acoustics

	Front dB	Rear dB	Condition
Minimum	51	55	Normal operation
Maximum	64	66	Startup or high temperature operation

Electrical power

100 to 127 or 200 to 240 vac at 50 Hz or 60 Hz

Power® usage:

8 A for 120 Vac

4 A for 220 Vac

The 9235 appliance contains two 650-watt power modules that operate at 100 to 127 Vac or 200 to 240 Vac at 50 or 60 Hz. Both power supply modules must be connected to the same power source to prevent ground voltage potential difference between the two power modules.

Hardware requirements

For first-time configuration of the software, this appliance requires a compatible RS-232c terminal or terminal emulator with a male DB-9 serial port connector. The terminal must support the following RS-232c serial parameters:

- 9600 baud
- 1 stop bit
- No parity
- XON/XOFF handshaking

The terminal must support ANSI/VT-100 control sequences. "Hyperterminal" in Microsoft® Windows® and "Minicom" in Linux® are appropriate terminal emulators.

Unattended or remote installation may be performed through a network-attached terminal server.

Software requirements

The 9235 series appliance comes with IBM-supplied software. It is not possible to install any other software.

Planning information

Customer responsibilities

This product is designated for customer setup. Customer setup instructions are shipped with the product.

Cable orders

Each 9235 appliance contains four Gigabit Ethernet connections. The RJ-45 connectors provide a 10/100/1000 Base-T interface (either at half-duplex or full-duplex) for connecting twisted-pair cable to the Ethernet network. Cabling is not included with the appliance. To connect the Ethernet controller to a repeater or switch, use an unshielded twisted pair (UTP) cable with RJ-45 connectors at both ends. For 100 Mbps or higher operation, Category 5 cabling must be used. For 10 Mbps operation, Category 3, or better cabling, must be used.

Each 9235 appliance contains a single RS-232c serial port connection. The male DB-9 connector provides a 9600 baud asynchronous serial interface for connecting a serial cable to a console terminal (typically a terminal emulator running on an IBM PC). A 6 foot long "NULL modem" cable, with two female DB-9 connectors, is provided with the appliance for this purpose. The terminal's serial parameters should be set to 9600 baud, no parity, 1 stop bit, XON/XOFF handshaking.

Installability

Each 9235 series appliance requires approximately 30 minutes for installation. Installation includes unpacking, rack-mounting, connecting network and console cables, and powering on the system. Additional time is required to configure the software.

Packaging

The 9235 series appliance is shipped in a single package.

- Single pack dimensions: 39.5 x 24 x 10 in
- Single pack weight: 49 lb

The 9235 series appliance carton contains:

- 9235 series appliance (model specific)
- Resource CD (model specific)
- Rack-mount kit
- Two power cords
- Console serial cable
- Safety Pointer
- Installation Guide
- Quick Start Manual
- Welcome Flyer
- Doc Browser CD-ROM

Supplies

The following consumable part is available for purchase from IBM. Similar parts are also available for purchase from most electronic stores.

Description	Part number
Battery	44x0512

Security, auditability, and control

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

Terms and conditions

IBM Global Financing

Yes

Warranty period

WebSphere DataPower XC10 hardware - One year

The battery in WebSphere DataPower XC10 is designated as consumable and, therefore, is not covered by this warranty.

Warranty service

With each appliance acquired, IBM includes one year of appliance support consisting of 9 hours per day, Monday through Friday, excluding holidays, next business day response. The initial period of maintenance can be upgraded by the purchase of warranty service upgrade or extended by the purchase of a renewal option, if available.

If required, IBM provides repair or exchange service depending on the type of warranty service specified for the machine. IBM will attempt to resolve your problem over the telephone, or electronically by access to an IBM Web site. You must follow

the problem determination and resolution procedures that IBM specifies. Scheduling of service will depend upon the time of your call and is subject to parts availability.

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.

Service type

Service type for the WebSphere DataPower XC10 is Customer Replaceable Unit (CRU) (for example, fan module, power supply, or hard disk drive) Service and Machine Exchange Service.

CRU Service

IBM provides replacement CRUs to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM upon your request. CRUs are designated as being either a Tier 1 or a Tier 2 CRU.

Tier 1 CRU

Installation of Tier 1 CRUs is your responsibility. If IBM installs a Tier 1 CRU at your request, you will be charged for the installation.

Tier 2 CRU

You may install a Tier 2 CRU yourself or request IBM to install it, at no additional charge.

Based upon availability, CRUs will be shipped for next business day (NBD) delivery. IBM specifies, in the materials shipped with a replacement CRU, whether a defective CRU must be returned to IBM. When return is required, return instructions and a container are shipped with the replacement CRU, you may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.

The following parts have been designated as Tier 1 CRUs:

- Hard disk drive
- Hard disk drive module
- Fan module
- Serial console cable
- Rack mounting kit
- Power cord
- Power supply

Machine Exchange Service

IBM will initiate shipment of a replacement machine to your location. You are responsible for its installation and verification of operation. You must pack the failed machine into the shipping container that contained the replacement machine and return the failed machine to IBM. Transportation charges, both ways, are paid by IBM. You may be charged for the replacement machine if IBM does not receive the failed machine within 15 days of your receipt of the replacement.

Non-IBM parts service

Warranty service

IBM is now shipping machines with selected non-IBM parts that contain an IBM field replaceable unit (FRU) part number label. These parts are to be serviced during the IBM machine warranty period. IBM is covering the service on these selected non-

IBM parts as an accommodation to their customers, and normal warranty service procedures for the IBM machine apply.

Product consumable items

The battery, a consumable item, is not warranted.

Warranty service upgrades

During the warranty period, warranty service upgrades provide an enhanced level of On-site Service for an additional charge. Service levels are response-time objectives and are not guaranteed.

IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM Web site. You must follow the problem determination and resolution procedures that IBM specifies. Scheduling of service will depend upon the time of your call and is subject to parts availability.

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 on-site response-time objectives are available as warranty service upgrades for your machine. Available offerings are:

24 hours per day, 7 days a week, 4-hour average response

Customer Replaceable Units (CRUs) may be provided as part of the machine's standard warranty CRU Service except that you may install a CRU yourself or request IBM installation, at no additional charge, under one of the On-site Service levels specified above. For additional information on the CRU Service, see the warranty information.

Maintenance services

If required, IBM provides repair or exchange service depending on the types of maintenance service specified for the machine. IBM will attempt to resolve your problem over the telephone or electronically, via an IBM Web site. You must follow the problem determination and resolution procedures that IBM specifies. Scheduling of service will depend upon the time of your call and is subject to parts availability. Service levels are response-time objectives and are not guaranteed. 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. The following service selections are available as maintenance options for your machine type.

Customer Replaceable Unit (CRU) Service

If your problem can be resolved with a CRU, and depending upon the maintenance service offerings in your geography, IBM will ship the CRU for your installation. CRU information and replacement instructions are shipped with your machine and are available from IBM upon your request.

Based upon availability, CRUs will be shipped for next business day delivery. IBM specifies, in the materials shipped with a replacement CRU, whether a defective CRU must be returned to IBM. When return is required, 1) return instructions and a container are shipped with the replacement CRU and 2) you may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.

CRUs are designated as being either a Tier 1 or a Tier 2 CRU.

Tier 1 CRUs: Installation of Tier 1 CRUs is your responsibility. If IBM installs a Tier 1 CRU at your request, you will be charged for the installation.

For machines with On-site Same-day Response Service, IBM will replace a Tier 1 CRU part at your request, at no additional charge.

Tier 2 CRUs: You may install a Tier 2 CRU yourself or request IBM to install it, at no additional charge.

The following parts have been designated as Tier 1 CRUs:

- Hard disk drive
- Hard disk drive module
- Fan module
- Serial console cable
- Rack mounting kit
- Power cord
- Power supply
- Pin entry device (PED) for HSM models

Product consumable items

The batter, a consumable item is not warranted.

Machine Exchange Service

IBM will initiate shipment of a replacement machine to your location. You are responsible for its installation and verification of operation. You must pack the failed machine into the shipping container that contained the replacement machine and return the failed machine to IBM. Transportation charges, both ways, are paid by IBM. You may be charged for the replacement machine if IBM does not receive the failed machine within 15 days of your receipt of the replacement.

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.

Service levels are:

- 9 hours per day, Monday through Friday, excluding holidays, next business day response
- 24 hours per day, 7 days a week, 4-hour average response

Warranty service upgrades

Usage plan machine

No

IBM hourly service rate classification

Not applicable

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

Customer setup. Customers are responsible for installation according to the instructions IBM provides with the machine.

Graduated program license charges apply

No

Licensed internal code

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage® Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use. Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

These products are licensed under the IBM Program License Agreement (IPLA), the associated Agreement for Acquisition of Support, and the Addendum for Support which provides for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an ongoing recurring charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours) as well as access to updates, releases, and versions of the program as long as support is in effect.

License Information form number

IBM WebSphere DataPower XC10

L-JTHS-84PJXZ

The program License Information will be available for review on the IBM Software License Agreement Web site

<http://www.ibm.com/software/sla/sladb.nsf>

Educational allowance

Not applicable

Pricing

For additional information and current prices, contact your local IBM representative.

Product charges

With each appliance acquired, IBM includes one year of appliance support consisting of 9 hours per day, Monday through Friday, excluding holidays, next business day response. The initial period of maintenance can be upgraded by the purchase of warranty service upgrade or extended by the purchase of a renewal option, if available.

Description	Machine type	Model
IBM WebSphere DataPower XC10	9235	92X

Specify features

Description	Machine	Model	Feature	Charge
Line cord - 2.8m, 10A/250V, C13 to GB 2099.1 (China)	9235	92X	6210	N/C
Line cord - 2.8m, 10A/250V, C13 to AS/NZ 3112 (Australia/NZ)	9235	92X	6211	N/C
Line cord - 2.8m, 10A/250V, C13 to IEC 309 Type 2P + Gnd (Europe)	9235	92X	6212	N/C
Line cord - 2.8m, 10A/250V, C13 to DK2-5a (Denmark)	9235	92X	6213	N/C
Line cord - 2.8m, 10A/250V, C13 to SABS 164 (S Africa)	9235	92X	6214	N/C
Line cord - 2.8m, 10A/250V, C13 to BS 1363/A (UK)	9235	92X	6215	N/C
Line cord - 2.8m, 10A/250V, C13 to SEV 1011-S24507 (Swiss)	9235	92X	6216	N/C
Line cord - 2.8m, 220-240V, C13 to IMQ CEI 23-16 (Italy/Chile)	9235	92X	6217	N/C
Line cord - 2.8m, 10A/250V, C13 to SI 32 (Israel)	9235	92X	6218	N/C
Line cord - 2.8m, 12A/100V, C13 to KETI (Korea)	9235	92X	6219	N/C
Line cord - 2.8m, 10A/250V, C13 to IRAM 2073 (Argentina)	9235	92X	6222	N/C
Line cord - 2.8m, 10A/125V, C13 to IEC320 (Brazil)	9235	92X	6223	N/C
Line cord - 2.8m 10A/250V, C13(2P+Gnd) (India)	9235	92X	6269	N/C
Line cord - 2.8m, 10A/125V, C13 to NEMA 5-15P (US)	9235	92X	6313	N/C

Line cord - 2.8m, 12A/100V, C13 to JIS C-8303(Japan)	9235	92X	6314	N/C
Line cord - 2.8m, 10A/25V, C13 to CNS 10917-3 (Taiwan)	9235	92X	6386	N/C

Feature Install Summary

Machine Type	Feature number	Field install only	Plant install only	MES removal	MES add charge	Cables required
9235	6210	N	Y	N	N	N
9235	6211	N	Y	N	N	N
9235	6212	N	Y	N	N	N
9235	6213	N	Y	N	N	N
9235	6214	N	Y	N	N	N
9235	6215	N	Y	N	N	N
9235	6216	N	Y	N	N	N
9235	6217	N	Y	N	N	N
9235	6218	N	Y	N	N	N
9235	6219	N	Y	N	N	N
9235	6222	N	Y	N	N	N
9235	6223	N	Y	N	N	N
9235	6269	N	Y	N	N	N
9235	6313	N	Y	N	N	N
9235	6314	N	Y	N	N	N
9235	6386	N	Y	N	N	N

ServicePac prices

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

IBM Global Financing

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