



IBM BladeCenter HT ac and dc model chassis accommodates BladeCenter blade servers for telecommunications environments and new options

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At a glance

BladeCenter HT models are designed specifically for telecommunications network infrastructures and other rugged environments.

BladeCenter HT 8740-1Rx dc-powered features:

- Rack-optimized 12 U modular enclosure holding 12 blade servers
- Two hot-swap dc power supplies with redundant configuration
- Four hot-swap fan modules and a media tray with light path diagnostics, two front access USB ports, and optional compact flash memory module support
- Advanced Management Module (AMM)
- Ability to integrate storage and Ethernet networking
- New serial port for direct serial connection to installed blades

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Both BladeCenter HT chassis support BladeCenter HS20, HS21, JS20, JS21, LS20, and LS21/41 blades. Certified testing by Underwriters Laboratories of the BladeCenter HT chassis is in progress, and when complete the BladeCenter HT chassis will be covered under a UL certified NEBS Level 3/ETSI test report, which will be available for review with customers. BladeCenter HT configurations will be NEBS3/ETSI certified (planned). **For ordering, contact:**

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL Reference: YE001

Overview

The BladeCenter® HT models are high-performance blade platforms for critical network applications to the telecommunications industry. They

contain the telecommunications infrastructures that require networking equipment to support ac and dc power environments.

The IBM BladeCenter family, leveraging the best of telecom and IT, brings a powerful set of capabilities to the carrier environment, including the ability to flexibly deploy the same solution in either a datacenter or a central office environment without change. This powerful paradigm shift means service providers can now standardize on a single architecture across their business, driving down TCO and OPEX expense.

BladeCenter HT extends this value to network equipment and telecom service providers by supporting high speed connectivity (over 1 Terabyte of aggregate throughput on the backplane) and supports the high performance blade servers, featuring Dual and Quad core processors from Intel®, AMD, and IBM, and a complete management solution. Certified testing by Underwriters Laboratories of the BladeCenter HT chassis is in progress, and when complete the BladeCenter HT chassis will be covered under a UL certified NEBS Level 3/ETSI test report, which will be available for review with customers. IBM BladeCenter HT sets the bar for both one of the lowest cost per server and among the highest performance per server in the Telco industry.

BladeCenter HT brings significant new capabilities to IBM's broad ecosystem of hundreds of NGN applications already being deployed on BladeCenter. A key example of this ecosystem is the introduction of the Nortel 10 Gb Ethernet Switch Module for BladeCenter, which delivers 10 Gb to each blade server deployed in the BladeCenter H or BladeCenter HT chassis, and six 10 Gb Ethernet uplinks. This capability helps greatly reduce the cost of implementing IPTV and other high bandwidth NGN applications.

IBM BladeCenter HT chassis

- Rack-optimized, 12 U modular design enclosure holds up to 12 blade servers
- A high-availability, redundant midplane supports all current and is planned to support all future IBM blades
- The chassis includes:
 - Two hot-swap, redundant power modules and support for two additional redundant (optional) power modules
 - Four hot-swap, redundant fan modules (each with two fans)
- BladeCenter Advanced Management Module (AMM) gives you control over the solutions at the chassis level — simplifying installation
- IBM Director and Remote Deployment Manager™ makes it easy to install and manage
- Built-in media tray is customer serviceable and includes light path diagnostics, two front USB inputs, and optional compact flash drive support

The BladeCenter HT chassis can handle rack-dense two-socket and four-socket BladeCenter servers, and is ideal for central office and other rugged environments.

IBM services and support

- ServerProven® compatibility testing and Web support
- Warranty: Three years, customer replaceable unit (CRU) and on-site service¹, limited warranty²; optional warranty service upgrades available

Key prerequisites

- BladeCenter HS20, HS21, JS20, JS21, LS20, and LS21/41 blades
- PC connect to Management Module
- Monitor, keyboard, mouse, and rack
- Appropriate power source

Planned availability date

June 15, 2007:

- IBM BladeCenter HT chassis 8740 and 8750
- IBM BladeCenter HT Options

Description

Related options BladeCenter HT

- IBM BladeCenter HT dc Power Supply Module (42C5279)
- IBM BladeCenter HT ac Power Supply Module (42C5280)
- IBM BladeCenter HT 2-Post Rack Mount Kit (42C5281)
- IBM BladeCenter HT 4-Post Rack Mount Kit (42C5284)
- IBM BladeCenter HT Advanced Mgmt Module Interposer (42C5315)
- IBM BladeCenter HT Interposer for Gb Switch and Bridge Bays (42C5300)
- IBM BladeCenter HT Interposer for Gb Switch and Bridge Bays with Interswitch Links (ISL) (42C5301)
- IBM BladeCenter HT Interposer for HS Switch Bay (42C5302)
- IBM BladeCenter HT Redundant Media Tray (42C5305)
- IBM BladeCenter HT Compact Flash 1 GB (42C5307)
- IBM BladeCenter HT Compact Flash 4 GB (42C5310)
- IBM BladeCenter HT Bezel (includes Filter and Cable Management Collar) (42C5278)
- IBM BladeCenter HT Filter (4 pack) (42C5316)

dc Power Supply Option — (42C5279)

This power supply option contains two hot-swap -48V to -60V power supplies to provide both power and redundancy to your IBM BladeCenter HT. Two hot-swap, redundant power modules are standard and support the population of BladeCenter HT blade bays 1 through 6 and IO Module bays 1 through 4. This Power Supply Module option is required to support installation of blade servers in BladeCenter HT blade bays 7 through 12 and IO Module bays 7 through 10. BladeCenter HT customers must use power supplies of identical wattages to provide power redundancy and should not mix power supplies of different wattages.

Features and benefits:

- This option can help protect your data from power disruptions that cause downtime and reduced availability.

ac Power Supply Option — (42C5280)

This power supply option contains two hot-swap 200-240V power supplies to provide both power and redundancy to your IBM BladeCenter HT. Two 2.8m (nine foot) IEC309 C19 to C20 rack cables, making it easy to attach to a supported 200 to 240V power distribution unit. BladeCenter HT supports four power modules. Two hot-swap, redundant power modules are standard and support the population of BladeCenter HT blade bays 1 through 6 and IO Module bays 1 through 4. This Power Supply Module option is required to support installation of blade servers in BladeCenter HT blade bays 7 through 12 and IO Module bays 7 through 10. BladeCenter HT customers must use power supplies of identical rating to provide power redundancy and should not mix power supplies of different ratings.

Features and benefits:

- This option can help protect your data from power disruptions that cause downtime and reduced availability.
- The power supplies have a single IEC 309 C19 input (16 amp). This option includes two 2.8m (nine foot) C19 to C20 cables, making it easy to attach the power supplies to a DPI® High-Density PDU or a DPI Front-end PDU.

2Post Rack Mount Kit — (42C5281)

This mounting kit is specially designed to support the deployment of BladeCenter HT chassis in a standard telecommunications 42 U tall, 2 post rack deployed in telecommunications Central Offices. BladeCenter HT, with a compact chassis, requires different mounting rails and support frames than those deployed to support the BladeCenter chassis or rack enterprise rack mount servers in data centers with 2Post racks.

Feature benefits:

- Configuration flexibility
- Minimize investment in rack infrastructure

4Post Rack Mount Kit — (42C5284)

This mounting kit is uniquely designed to support the shipment of BladeCenter HT chassis in a standard 42 U telecommunications rack (that is, ship in rack kit). BladeCenter HT, with a compact chassis, requires different mounting rails and frames than those deployed to support the BladeCenter T chassis or rack enterprise rack mount servers in data centers with 4Posts.

Feature benefits:

- Configuration flexibility
- Minimize investment in rack infrastructure

Advanced Management Module Interposer — (42C5315)

An extender (connection link) between the Advanced Management Module and the BladeCenter HT midplane maintains the internal fabric and signaling between the two. One of these interposers comes standard with the BCHT chassis, but this option must be ordered if a redundant AMM is deployed in BCHT.

Note: Note that the BladeCenter Advanced Management Module is the AMM supported in the BCHT chassis.

Feature benefits:

- Enhanced reliability

Interposer for Gb Switch and Bridge Bays — (42C5300)

An extender (connection link) between the Gb Switch/Bridge Bays and the BladeCenter HT midplane maintains the internal fabric and signaling between the two. One of these interposers must be ordered for each Ethernet/network switch or Pass Thru module deployed with the BCHT chassis.

Note: Note that all of the existing Ethernet/network switches (Nortel, Cisco) are supported in the BCHT chassis.

Feature benefits:

- Enhanced reliability

Interposer for Gb Switch/Bridge Bays with Interswitch Links (ISL) — (42C5301)

BladeCenter HT provides support for internal links between redundant pairs of switch modules. These inter-switch links (or ISLs) provide the ability to establish load balancing or high-speed communications between switch pairs without consuming valuable external ports. The internal links are provided via optional switch interposers, or extenders, which are installed behind the switch module and provide a connection link between the Gb Switch/Bridge Bays and the BladeCenter HT midplane, which maintains the internal fabric and signaling between the two in the BladeCenter HT I/O module bay. Two of these interposer options must be ordered per switch pair, one for each of the switch or Pass Thru modules deployed with the BCHT chassis. Inter-switch links may not be applicable to all BladeCenter switch modules, consult your WW product team for advice before ordering this option.

Feature benefits:

- Increased network connectivity

- Enhanced reliability

Interposer for HS (High Speed) Switch Bays — (42C5302)

An extender (connection link) between the high speed switch bays and the BladeCenter HT midplane, which maintains the internal fabric and signaling between the two. One of these interposers must be ordered for each high speed switch module deployed with the BCHT chassis.

Feature benefits:

- Enhanced reliability

Redundant Media Tray — (42C5305)

A customer serviceable, half-blade design media tray directly wired to the BladeCenter HT midplane can be removed without impacting operation of the chassis. This tray includes two external USB connectors and full Light Path Diagnostics and also supports optional 1 GB and 4 GB Compact Flash drive options typically used for local boot of operating system in a telecommunications environment.

Note: No optical (CD/DVD) drives are integrated into this tray.

Feature benefits:

- Enhanced reliability
- Configuration flexibility

1 GB Compact Flash Option — (42C5307)

This optional 1 GB compact flash module is a media tray option and supports the boot of an operating system from any blade server housed inside the BladeCenter HT chassis. It provides flash based storage (non-rotating media) capable of meeting NEBS/ETSI certification as required in thermally challenged telecommunications environments.

Feature benefits:

- Configuration flexibility
- Improved reliability

4 GB Compact Flash Option — (42C5310)

This optional 4 GB compact flash module is a media tray option and supports the boot of an operating system from any blade server housed inside the BladeCenter HT chassis. It provides flash based storage (non-rotating media) capable of meeting NEBS/ETSI certification as required in thermally challenged telecommunications environments.

Feature benefits:

- Configuration flexibility
- Improved reliability

Bezel (includes Filter and Cable Mgmt. Collar) — (42C5278)

This 90 mm deep bezel, which houses a customer replaceable filter and cable management arm to simplify cable routing, attaches to the front of the BladeCenter HT chassis and supports the deployment of I/O cabling inside the chassis envelope to maintain operational integrity of the system. The in process NEBS/ETSI test of the BladeCenter HT chassis includes this bezel.

Feature benefits:

- Improved reliability
- Configuration simplicity

Filters (4 pack) — (42C5316)

A pack of 4 customer replaceable filters are easily deployed inside the IBM BladeCenter HT Bezel. Typically, a filter should be replaced every 3-4 months to keep external contaminants, such as dust and airborne particles, from impacting the operational integrity of the BladeCenter HT chassis.

Feature benefits:

- Improved reliability

BladeCenter HT Network Applications

The IBM BladeCenter HT contain dual ac or dc power supplies designed specifically for the telecommunications network infrastructure.

Up to twelve blades per chassis can be supported:

- Ethernet connectivity via blades and switch options
- Integrated systems manager (Director)

The IBM BladeCenter HT are well-suited, but not limited to, the following BladeCenter T applications:

Network management and security:

- Network management engine
- Internet cache engine
- RSA encryption
- Gateways
- Intrusion detection

Network infrastructure:

- Softswitch
- Unified messaging
- Gateway/Gatekeeper/SS7 solutions
- VOIP services and processing
- Gateways
- Voice portals
- IP translation database

Standard BladeCenter HT configurations

Model	Power supply	Modules	
		Fan	Management
8740-1Rx	2x dc HS	4 HS	1
8750-1Rx	2x ac HS	4 HS	1

Standard functions include:

- 12 U form factor
- Two hot-swap power supplies, optional to four
- External diskette/DVD/CD drive support via USB

Function and expansion capacity

The IBM BladeCenter HT packs substantial function and storage capacity into a 12 U, 19-inch rack-drawer package. It supports easy installation of blades, adapters, switches, and

management modules.

Features include:

- Rack-optimized design for 19.5-inch wide, industry-standard rack cabinets
- ac and dc worldwide power supplies support:
 - Auto restart to minimize operator intervention after temporary power outage
 - Two -48 V dc or 220 V ac (nominal) power sources for greater fault tolerance
 - Maximum configurations
- Four variable-speed fan modules

Systems management and support tools

For additional information regarding systems management features and support tools and programs for the BladeCenter LS21, refer to Hardware Announcement [106-617](#), dated August 15, 2006. For the BladeCenter HS21, refer to Hardware Announcement [106-826](#), dated November 14, 2006.

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-03.ibm.com/able/product_accessibility/index.html

Product positioning

The BladeCenter HT is a compact, twelve-server blade chassis designed for high-density server installations for telecommunications use. This chassis with ac or dc power supplies is a low-cost, high performance, high-availability solution for telecommunications networks environments.

The BladeCenter HT chassis is positioned for expansion, capacity, redundancy, and carrier-grade NEBS level 3/ETSI compliance in dc models. The BladeCenter HT offers high levels of performance when using the two-socket blades or the four-socket blades. It is a cost-effective, scalable solution to satisfy most telecommunications environments.

Reference information

1 With respect to on-site service, IBM sends a technician after attempting to diagnose and resolve the problem remotely.

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

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

Alternatively, this information is also available by contacting your IBM representative or reseller. Copies are available upon request.

Note: The information in IBM announcement letters is subject to change without notice, consult the IBM Sales Manual, or your IBM representative or reseller, for the most current information regarding IBM products.

Reference sell

IBM will reference sell products with BladeCenter HT from vendors who are participants in the IBM ServerProven program. Visit the ServerProven Web site for details about compatibility.

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).

BP Attachment for Announcement Letter 107-108

Trademarks

Remote Deployment Manager is a trademark of International Business Machines Corporation in the United States or other countries or both.

BladeCenter, ServerProven, DPI, eServer, and Wave are registered trademarks of International Business Machines Corporation in the United States or other countries or both.

Intel is a registered trademark of Intel Corporation.

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

Network Clock Module Option

Telecommunications synchronous networks rely on precise clocking (synchronous timing signals) to maintain the synchronous traffic within the network without slips (underrun/overrun conditions causing loss of data). Other synchronous transmission schemes, such as delay sensitive synchronous data over ATM, also require precise clocking synchronization within the network nodes to maintain the synchronous traffic without loss of data. This precise synchronous clocking insures that the data is received and transmitted at the same rate at every step, or hop, across the network. In order to support applications requiring strict synchronous timing, IBM plans to provide in the future, a new optional Network Clock Module, which will synchronize to clock sources and provide Stratum 3/3E timing signals within the chassis for support of interfaces to external networks requiring the strict timing relationship across these networks. The BladeCenter® HT is enabled to support this future function.

Feature benefits:

- Data integrity and reliability

Publications

The following publications and CD-ROMs are shipped with the IBM BladeCenter HT.

- IBM BladeCenter HT Installation Guides contains an introduction to the computer, installation and setup, installing options, reference information, and problem determination. The installation guides have easy-to-use text and pictorials to enable you to quickly set up the server.

Note: Software versions, features, and functions shipped with these systems may change as new releases become available or may be discontinued at any time. The following publication is available immediately. To order, contact your IBM representative.

Title	Order number
BladeCenter HT Solutions Product Brochure	BLD03003-USEN-00

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 books are offered in displayable softcopy form. All books are included. The displayable manuals are part of the basic machine-readable material. The files are shipped on the same media type as the basic machine-readable material.

These displayable manuals can be used with the BookManager® READ licensed programs in

any of the supported environments. Terms and conditions for use of the machine-readable files are shipped with the files.

Source file publications

The product books are offered in source file form as no-charge feature. All books are included. The source files are shipped on the same media type as the basic machine-readable material.

These files can be used with the BookMaster® and DCF-licensed programs to create unmodified printed copies of the manuals. The source files can also be used with the BookManager BUILD licensed program to create unmodified displayable softcopy manuals. Terms and conditions for use of the machine-readable files are shipped with the files.

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.

xSeries® and BladeCenter support services

Recommended core technical support: When you buy IBM xSeries 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's 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'll help you get started with a core support package that includes:

- **Continuous system monitoring**

Exclusive 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**

Unlimited help line calls for fast, accurate answers to your questions during installation and throughout ongoing operations.

For more information refer to:

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

Specified operating environment

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

BladeCenter HT

	8740- 1Rx	8750- 1Rx
Power supply	HS dc	HS ac
Number standard	2	2
Hot - swap	Yes	Yes
Fan modules	4 HS	4 HS
Advanced Mgmt Module	1	1
Switch/bridge bays	4	4
High speed switch bays	4	4

For additional product information visit,

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

Operating environment

- Temperature: 5° to 40°C (41° to 104°F)
- Relative humidity: 8% to 80% (non-condensing)

NEBS environment

- Air temperature:
 - Chassis on: 5° to 40°C (41° to 104°F)
Altitude: -60 m (-197 ft) to 1800 m (6000 ft)
 - Chassis on (short term*): -5° to 55°C (23° to 131°F)
Altitude: -60 m (-197 ft) to 1800 m (6000 ft)
 - Chassis on: 5° to 30°C (41° to 86°F)
Altitude: 1800 m (600 ft) to 4000 m (13,000 ft)
 - Chassis on (short term*): -5° to 45°C (23° to 113°F)
Altitude: 1800 m (6000 ft) to 4000 m (13,000 ft)
 - Chassis off: -40° to 70°C (-40° to 158°F)
- Rate of temperature change 30°C/hr (54°F/hr)
- Humidity:
 - Chassis on: 5% to 85%
 - Chassis on (short term*): 5% to 90% but not to exceed 0.024 kg water/kg of dry air
 - Chassis off: uncontrolled

* Note: A period of not more than 96 consecutive hours and a total of not more than 15 days in one year. (This refers to a total of 360 hours in any given year, but, no more than 15 occurrences during that one-year period.)

Dimensions BladeCenter HT: 12 U Rack Drawer

- Width: 441.9 mm (17.4 in)
- Depth: 706.0 mm (27.8 in)

- Height: 528.0 mm (21.0 in)

Weight Specifications

- Weight: (minimum configuration) 62.8 kg (150 lb)
- Weight: (maximum configuration) 159 kg (350 lb)

Electrical specifications — dc powered

- -48 to -60 V dc (nominal)
- Input kilovolt-amperes (kVA) (approximately):
 - Minimum configuration: 0.4 kVA
 - Maximum configuration: 7.8 kVA
- Btu output:
 - Ship configuration: 1441 Btu/hr (422 watts)
 - Full configuration: 26552 Btu/hr (7773 watts)
 - Noise level: Horizontal position: 7.5 bels (idling and operating)

Note: The noise emission levels stated are the declared (upper limit) sound power level, in bels, for a random sample of machines. All measurements made in accordance with ISO 7779 and reported in conformance with ISO 9296.

Electrical specifications — ac powered

- 200 to 240 (nominal) V ac; 50 Hz or 60 Hz
- Input kilovolt-amperes (kVA) (approximately):
 - Minimum configuration: 0.4 kVA
 - Maximum configuration: 7.8 kVA
- Btu output:
 - Ship configuration: 1441 Btu/hr (422 watts)
 - Full configuration: 26491 Btu/hr (7755 watts)
 - Noise level: Horizontal position — 7.5 bels (idling and operating)

Note: The noise emission levels stated are the declared (upper limit) sound power level, in bels, for a random sample of machines. All measurements made in accordance with ISO 7779 and reported in conformance with ISO 9296.

IBM BladeCenter HT systems are intended for use with rack-drawer servers and are tested and designed to operate in a horizontal position.

Standards: These server chassis support or comply with the following standards:

- Universal Serial Bus Architecture, Version 2.0
- 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 CISPR 22:1997
- Canada ICES-003, issue 4, Class A
- UL/IEC 60950-1³
- CAN C22.2 No. 60950-1-03
- Argentina S-Mark per IEC 60950-1

- NOM-019³

³ These servers are certified by the respective UL and NOM agencies.

Operating environment

- Air Temperature:
 - Chassis on: 5° to 40°C (41° to 104°F)
Altitude: -60m (-197 ft) to 1800 m (6000 ft)
 - Chassis on (short term*): -5° to 55°C (23° to 131°F)
Altitude: -60 m (-197 ft) to 1800 m (6000 ft)
 - Chassis on: 5° to 30°C (41° to 86°F)
Altitude: 1800m (600 ft) to 4000 m (13,000 ft)
 - Chassis on (short term*): -5° to 45°C (23° to 113°F)
Altitude: 1800 m (6000 ft) to 4000 m (13,000 ft)
 - Chassis off: -40° to 70°C (-40° to 158°F)
- Rate of temperature change 30°C/hr (54°F/hr)
- Humidity:
 - Chassis on: 5% to 85%
 - Chassis on (short term*): 5% to 90% but not to exceed 0.024 kg water/kg of dry air
 - Chassis off: uncontrolled

* Note: A period of not more than 96 consecutive hours and a total of not more than 15 days in one year. (This refers to a total of 360 hours in any given year, but, no more than 15 occurrences during that one-year period.)

Hardware requirements: For attended installation of an operating system, the BladeCenter HT and blades requires a compatible:

- Keyboard
- Mouse
- HDD
- Display (E54, E74, T541, or equivalent)

Unattended or remote installation may be performed without requiring some or all of these components. Review your unattended software installation program information for specific hardware configuration requirements.

For service, BladeCenter HT requires a compatible:

- Keyboard
- Mouse
- HDD
- Display (E54, E74, T541, or equivalent)

When having the unit serviced, plan to have these components attached to your server either directly or indirectly via a console.

Software requirements

Programming requirements: None

Compatibility: The IBM BladeCenter HT is compatible with the HS20, HS21, JS20, JS21, LS20, and LS21/41, which contain licensed system programs that include set configuration, set

features, and test programs. System BIOS is loaded from a "flash" EEPROM into system memory. This BIOS provides instructions and interfaces designed to support the standard features of these servers to maintain compatibility with many current software programs.

For detailed information about IBM and non-IBM devices, adapters, software, and network operating systems supported with xSeries servers, visit

<http://www.ibm.com/pc/us/compat>

Contact your IBM representative, IBM Business Partner, or refer to the IBM Sales Manual for information on the compatibility of hardware and software for xSeries servers. The Sales Manual is updated periodically as new features and options are announced that support these servers.

Limitations: These IBM BladeCenter HT chassis support 200 to 240 V ac or -48 V to -60 V dc. For cabling, specifications, and current protection information, refer to the Cable orders section of this announcement.

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 8740 chassis must be installed by personnel trained in dc wiring installations. Setup instructions are shipped with the systems.

Configuration information

IBM BladeCenter HT Configuration

An indicator panel is located on each media tray and rear alarm module and contains the following LEDs:

- Power good
- Location
- Critical
- Major
- Minor

Rack installations

IBM BladeCenter HT chassis are 12 U, rack-drawer models designed to be installed in a 19-inch rack cabinet.

Power considerations

The IBM BladeCenter HT chassis includes two -48V dc to -60V dc power supplies or two 200V ac to 240V ac power supplies for redundancy. These power subsystem supplies can provide sufficient power to run the servers fully configured with supported devices.

Cable orders: For the dc-powered chassis, the IBM BladeCenter HT requires customer-supplied dc power wiring from an approved power source to the chassis. The cable size must be 4 AWG and not exceed 3 meters. The power source must have a minimum of 5 A and maximum of 75 A overcurrent protection. Information pertaining to wiring installation is contained in the installation guide for these products. Article 240 paragraph 3 of the National Electric Code, table 310-16, further describes wiring requirements for this type of equipment. The dc power cables are not included.

Network cabling

To connect the Ethernet switch to a network, 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.

There are no additional cabling requirements, other than for keyboard, mouse, and monitor connections.

Installability: The IBM BladeCenter HT chassis requires about 30 minutes for installation. Installation includes unpacking, setting up, and powering on the system. Additional time is required to install any software, additional adapters, or features.

The blades each require about 10 minutes for installation.

Packaging

Product	Package description	Boxes
IBM BladeCenter HT dc Power Model	System Unit Carton	1
IBM BladeCenter HT ac Power Model	System Unit Carton	1

Contents:

System Unit
Country Kit

Country Kit contents:

Installation Guide
CD-ROM packages*
Safety, Contents, and About Your Documentation Flyers
Warranty and support information

* Documentation, IBM Director V

IBM BladeCenter HT chassis are each shipped in a single carton.

Approximate shipping dimensions and weight:

- Single pack dimensions: 61 x 102 x 85 cm (24 x 40 x 33.5 in)
- Single pack weight: 123 kg (270 lb)
- Quantity per pallet: 1
- Pallet load dimensions: 61 x 106 x 15 cm (24 x 42 x 6 in)
- Pallet load weight: 141 kg (310 lb)
- Estimated safe stacking: 2 high

The country kit is in a separate box inside the main carton.

Supplies: For end users: IBM BladeCenter HT can be purchased through dealers around the world.

Security, auditability, and control

Security and auditability features for BladeCenter HT includes:

- Power-on and privileged-access password functions provide controls of who has access to the data and server setup program on the server.
- Set unattended boot mode allows the system keyboard to be locked to all entries except the password and at the same time allows other computers on the network to access the system disk drive.
- Selectable boot sequence can be used to prevent unauthorized installation of software or removal of data from the diskette drive.

The chassis and servers are intended to be installed and secured in a rack. It is a customer's responsibility to ensure that server and rack installation are 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 has transformed its delivery of hardware and software support services to put you on the road to 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 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.

To learn how Electronic Services can work for you, visit

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

Terms and conditions

IBM credit corporation financing: Yes

To obtain copies of the IBM Statement of Limited Warranty, contact your reseller or IBM.

In the United States, call 800-IBM-SERV (426-7378), or write to:

Warranty Information
P.O. Box 12195
Research Triangle Park, NC 27709
Attn: Dept. JDJA/B203

Warranty period

- Systems — Three year
- Options — One year

Optional IBM features initially installed in an IBM machine carry the same warranty period as the machine. If installed after the initial machine installation, they carry the balance of the machine warranty or the optional feature warranty, whichever is greater.

Warranty service: If required, IBM provides repair or exchange service depending on the type of warranty service specified below 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.

Customer Replaceable Unit (CRU) (for example, keyboard, mouse, speaker, memory, hard disk drive) service and on-site service.

CRU service: IBM provides a replacement CRU to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM at any time on your request. A CRU is designated as being either a Tier 1 or a Tier 2 CRU. Installation of a Tier 1 CRU is your responsibility. If IBM installs a Tier 1 CRU, at your request, you will be

charged for the installation. You may install a Tier 2 CRU yourself or request IBM to install it, at no additional charge, under the type of warranty service specified below, on-site service.

Based upon availability, a CRU 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, and 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 have been designated as a Tier 1 CRU:

- Power Supply Fan Pack
- High Speed Switch Filler
- High Speed Switch Module 4x Assembly
- Blade Filler
- Alarm Panel Cable
- AC Jumper cord
- Power Supply
- Management Module Card Assembly
- Serial Port Breakout cable
- Switch Module Filler Assembly
- Filler Trays
- Chassis Fan Module
- High Speed Switch Filler
- DC Terminal Cover w/ Fasteners
- Interposer Filler Tray High Speed Switch Top Position
- Power Supply Filler
- Media tray Assembly
- Media Filler tray Assembly
- Interposer Filler Tray High Speed Switch Bottom Position
- Advance Management Module Interposer Tray Assembly
- Network Clock Filler Assembly
- Chassis Front Bezel Assembly w/Filter and Collar
- Midplane Multiplexer Card Assembly
- SW Bridge Interposer Tray Assembly
- IBM BladeCenter HT Telecom Alarm Card Assembly
- High Speed Switch Interposer — w/ Thumb Screws
- System Service Cards
- Chassis Lift Handles
- Cable Management System Assembly
- Air Filter
- Compact Flash 1 GB
- Compact Flash 4 GB
- Bridge Interposer Tray Assembly with ISL
- High Speed Switch Module Interposer

On-site service: On-site repair, 9 hours per day, Monday through Friday excluding holidays,

NBD response. IBM or your reseller will repair the failing machine at your location and verify its operation. You must provide suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose. On-site service is not available in all countries, and some countries have kilometer or mileage limitations from an IBM service center. In those locations where on-site service is not available, the normal in-country service delivery is used.

Call IBM at 800-IBM-SERV (426-7378), to assist with problem isolation for hardware to determine if warranty service is required. Telephone support may be subject to additional charges, even during the limited warranty period.

International Warranty Service: International Warranty Service (IWS) is available in selected countries or regions.

The warranty service type, for example, on-site repair and customer replaceable unit, and service level, 9x5 NBD and 24x7, provided in the servicing country may be different from that provided in the country in which the machine was purchased.

Under IWS, warranty service will be provided with the prevailing warranty service type and service level available for the IWS-eligible machine type in the servicing country and the warranty period observed will be that of the country in which the machine was purchased.

To determine the eligibility of your machine and to view a list of countries where service is available, visit:

<http://www-304.ibm.com/jct01004c/systems/support/supportsite.wss/warrantyform?brandind=5000008>

For more information on IWS, refer to Services Announcement 601-034, dated September 25, 2001.

Programs included with this product are licensed under the terms and conditions of the License Agreements that are shipped with the system.

Maintenance services

ServicePac®, ServiceSuite™, ServiceElect, and ServiceElite: ServicePac, ServiceSuite, ServiceElect, and ServiceElite provide hardware warranty service upgrades, maintenance, and selected support services in one agreement.

Warranty service upgrade: During the warranty period, a warranty service upgrade provides an enhanced level of on-site service for an additional charge. A warranty service upgrade must be purchased during the warranty period and is for a fixed term (duration). It is not refundable or transferable and may not be prorated. If required, IBM will provide the warranty service upgrade enhanced level of on-site service acquired by the customer. 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.

CRUs will be provided as part of the machine's standard warranty CRU service except that you may install a Tier 1 CRU yourself or request IBM installation, at no additional charge, under one of the on-site service levels specified below.

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

Refer to Prices section for specific offerings.

Maintenance service: If required, IBM provides repair or exchange service depending on the type of maintenance service specified below 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.

CRU service: If your problem can be resolved with a CRU (for example, keyboard, mouse,

speaker, memory, hard disk drive), IBM will ship the CRU to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM at any time on your request.

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, and 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.

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

Refer to Prices section for specific offerings.

Maintenance service (ICA)

Maintenance services are available for ICA legacy contracts.

Alternative service (warranty service upgrades): During the warranty period, warranty service upgrade provides an enhanced level of on-site service for an additional charge. A warranty service upgrade must be purchased during the warranty period and is for a fixed term (duration). It is not refundable or transferable and may not be prorated. If required, IBM will provide the warranty service upgrade enhanced level of on-site service acquired by the customer. 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.

A CRU will be provided as part of the machine's standard warranty CRU service except that you may install a Tier 1 CRU yourself or request IBM to install it, at no additional charge, under the type of warranty service specified below, on-site service.

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

Refer to Prices section for specific offerings.

Maintenance service: If required, IBM provides repair or exchange service depending on the type of maintenance service specified below 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.

CRU service: If your problem can be resolved with a CRU (for example, keyboard, mouse, speaker, memory, hard disk drive), IBM will ship the CRU to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM at any time on your request.

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, and 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.

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

Refer to Prices section for specific offerings.

Non-IBM parts support

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.

Warranty service upgrades and maintenance services: Under certain conditions, IBM Global Technology Services repairs selected non-IBM parts, at no additional charge, for machines that are covered under warranty service upgrades or maintenance services.

IBM Service provides hardware problem determination on non-IBM parts (for example, adapter cards, PCMCIA cards, disk drives, memory) installed within IBM machines covered under warranty service upgrades or maintenance services and provides the labor to replace the failing parts, at no additional charge.

If IBM has a Technical Service Agreement with the manufacturer of the failing part, or if the failing part is an accommodations part (a part with an IBM FRU label), IBM may also source and replace the failing part at no additional charge. For all other non-IBM parts, customers are responsible for sourcing the parts. Installation labor is provided at no additional charge, if the machine is covered under a warranty service upgrade or a maintenance service.

IBM hourly service rate classification: One

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. These products do not contain Licensed Internal Code or Licensed Machine Code.

Educational allowance: None

Prices

The following are newly announced features on the specified models of the IBM xSeries 8740 machine type:

Description	Model	Feature number	Purchase price	Initial / MES / both / support
BladeCenter HT (dc)	HC1		\$ 0	
Server Connectivity Module for IBM BladeCenter	HC1	1484	999	Initial
Nortel 10 Gb Uplink Ethernet Switch Module for IBM BladeCenter	HC1	1493	4,999	Initial
Nortel Networks Layer 2 -- 7 Gigabit Ethernet Switch Module for IBM BladeCenter	HC1	1494	8,999	Initial
Nortel Networks L2/L3 Copper Gigabit Ethernet Switch Module for IBM BladeCenter	HC1	1495	2,099	Initial
Nortel Networks L2/L3 Fiber Gigabit Ethernet Switch Module for IBM BladeCenter	HC1	1496	3,999	Initial
Cisco Systems Fiber Intelligent Gigabit Ethernet Switch Module for IBM BladeCenter	HC1	1497	4,999	Initial
Cisco Systems Intelligent Gigabit Ethernet Switch Module for IBM BladeCenter	HC1	1498	4,999	Initial
IBM BladeCenter Optical Pass-thru Module for IBM BladeCenter	HC1	1556	4,509	Initial
QLogic 4 Gb 20-port Fibre Channel Switch Module for IBM eServer BC	HC1	1560	13,999	Initial
McDATA 4 Gb 20-port Fibre Channel Switch Module for IBM eServer BC	HC1	1562	15,999	Initial
Brocade 4 Gb 20-port SAN Switch Module for IBM eServer BladeCenter	HC1	1569	14,999	Initial

Brocade 4 Gb 10-port SAN Switch Module for IBM eServer BladeCenter	HC1	1571	8,999	Initial
Cisco Systems 4X InfiniBand Switch module for IBM BladeCenter	HC1	1574	11,499	Initial
QLogic 4 Gb 10-port Fibre Channel Switch Module for IBM eServer BladeCenter	HC1	1575	8,999	Initial
McDATA 4Gb 10-port Fibre Channel Switch Module for IBM eServer BladeCenter	HC1	1576	10,999	Initial
IBM BladeCenter KVM/Advanced Management Module	HC1	1604	849	Initial
Offload Manufacturing to ISTC	HC1	1770	0	Initial
Power Supply -- dc (BCHT)	HC1	1984	2,299	Initial
BCHT dc PS 1 and 2	HC1	1987	2,299	Initial
Accessory Kit for 8740 dc System	HC1	2018	NC	Initial
Labels for BCHT (8740 and 8750)	HC1	2019	NC	Initial
Backplane with Bracket	HC1	2020	NC	Initial
Service Card	HC1	2021	NC	Initial
IBM BladeCenter HT Advanced Management Module Interposer	HC1	2022	379	Initial
Multiplexer Expansion Module	HC1	2023	NC	Initial
Alarm Panel Module	HC1	2024	NC	Initial
BladeCenter HT Interposer for Gb Switch/Bridge Bays with Interswitch Links (ISL)	HC1	2035	359	Initial
Custom Asset Tagging -- Standard	HC1	2200	10	Initial
Custom Asset Tagging -- Standard	HC1	2201	20	Initial
Custom Labeling	HC1	2220	5	Initial
Custom Palletization	HC1	2221	5	Initial
Request for a new Vendor Logo Hardware	HC1	2247	NC	Initial
Request for an existing IBM Feature	HC1	2248	NC	Initial
Request for an existing Public RPQ	HC1	2249	NC	Initial
BladeCenter Chassis Configuration	HC1	2300	250	Initial
Department of Defense UID Label	HC1	2320	10	Initial
System Packaging -- WW	HC1	2558	NC	Initial
Base Hardware (dc Model), 60A	HC1	2678	11,700	Initial
IBM BladeCenter Copper Pass-thru Module for IBM BladeCenter	HC1	2900	699	Initial
QLogic InfiniBand Ethernet Bridge Module for IBM BladeCenter	HC1	2941	8,149	Initial
QLogic InfiniBand Fibre Channel Bridge Module for IBM BladeCenter	HC1	2942	9,799	Initial
Nortel 10 Gb Ethernet Switch Module for IBM BladeCenter	HC1	2952	9,799	Initial
Install in Rack 01	HC1	3101	NC	Initial
Install in Rack 02	HC1	3102	NC	Initial
Install in Rack 03	HC1	3103	NC	Initial
Install in Rack 04	HC1	3104	NC	Initial
Install in Rack 05	HC1	3105	NC	Initial
Install in Rack 06	HC1	3106	NC	Initial
Install in Rack 07	HC1	3107	NC	Initial
Install in Rack 08	HC1	3108	NC	Initial
Install in Rack 09	HC1	3109	NC	Initial
Install in Rack 10	HC1	3110	NC	Initial
Install in Rack 11	HC1	3111	NC	Initial
Install in Rack 12	HC1	3112	NC	Initial
Install in Rack 13	HC1	3113	NC	Initial
Install in Rack 14	HC1	3114	NC	Initial
Install in Rack 15	HC1	3115	NC	Initial
Install in Rack 16	HC1	3116	NC	Initial
Install in Rack 17	HC1	3117	NC	Initial
Install in Rack 18	HC1	3118	NC	Initial
Install in Rack 19	HC1	3119	NC	Initial
Install in Rack 20	HC1	3120	NC	Initial
Install in Rack 21	HC1	3121	NC	Initial
Install in Rack 22	HC1	3122	NC	Initial
Install in Rack 23	HC1	3123	NC	Initial
Install in Rack 24	HC1	3124	NC	Initial
Install in Rack 25	HC1	3125	NC	Initial
Install in Rack 26	HC1	3126	NC	Initial
Install in Rack 27	HC1	3127	NC	Initial
Install in Rack 28	HC1	3128	NC	Initial

Install in Rack 29	HC1	3129	NC	Initial
Install in Rack 30	HC1	3130	NC	Initial
Install in Rack 31	HC1	3131	NC	Initial
Install in Rack 32	HC1	3132	NC	Initial
Install in Rack 33	HC1	3133	NC	Initial
Install in Rack 34	HC1	3134	NC	Initial
Install in Rack 35	HC1	3135	NC	Initial
Install in Rack 36	HC1	3136	NC	Initial
Install in Rack 37	HC1	3137	NC	Initial
Install in Rack 38	HC1	3138	NC	Initial
Install in Rack 39	HC1	3139	NC	Initial
Install in Rack 40	HC1	3140	NC	Initial
Install in Rack 41	HC1	3141	NC	Initial
Install in Rack 42	HC1	3142	NC	Initial
Install in Rack 43	HC1	3143	NC	Initial
Install in Rack 44	HC1	3144	NC	Initial
Install in Rack 45	HC1	3145	NC	Initial
Install in Rack 46	HC1	3146	NC	Initial
Install in Rack 47	HC1	3147	NC	Initial
Install in Rack 48	HC1	3148	NC	Initial
Install in Rack 49	HC1	3149	NC	Initial
Install in Rack 50	HC1	3150	NC	Initial
Install in Rack 51	HC1	3151	NC	Initial
Install in Rack 52	HC1	3152	NC	Initial
Install in Rack 53	HC1	3153	NC	Initial
Install in Rack 54	HC1	3154	NC	Initial
Install in Rack 55	HC1	3155	NC	Initial
Install in Rack 56	HC1	3156	NC	Initial
Install in Rack 57	HC1	3157	NC	Initial
Install in Rack 58	HC1	3158	NC	Initial
Install in Rack 59	HC1	3159	NC	Initial
Install in Rack 60	HC1	3160	NC	Initial
Install in Rack 61	HC1	3161	NC	Initial
Install in Rack 62	HC1	3162	NC	Initial
Install in Rack 63	HC1	3163	NC	Initial
Install in Rack 64	HC1	3164	NC	Initial
Rack location U01	HC1	3201	NC	Initial
Rack location U02	HC1	3202	NC	Initial
Rack location U03	HC1	3203	NC	Initial
Rack location U04	HC1	3204	NC	Initial
Rack location U05	HC1	3205	NC	Initial
Rack location U06	HC1	3206	NC	Initial
Rack location U07	HC1	3207	NC	Initial
Rack location U08	HC1	3208	NC	Initial
Rack location U09	HC1	3209	NC	Initial
Rack location U10	HC1	3210	NC	Initial
Rack location U11	HC1	3211	NC	Initial
Rack location U12	HC1	3212	NC	Initial
Rack location U13	HC1	3213	NC	Initial
Rack location U14	HC1	3214	NC	Initial
Rack location U15	HC1	3215	NC	Initial
Rack location U16	HC1	3216	NC	Initial
Rack location U17	HC1	3217	NC	Initial
Rack location U18	HC1	3218	NC	Initial
Rack location U19	HC1	3219	NC	Initial
Rack location U20	HC1	3220	NC	Initial
Rack location U21	HC1	3221	NC	Initial
Rack location U22	HC1	3222	NC	Initial
Rack location U23	HC1	3223	NC	Initial
Rack location U24	HC1	3224	NC	Initial
Rack location U25	HC1	3225	NC	Initial
Rack location U26	HC1	3226	NC	Initial
Rack location U27	HC1	3227	NC	Initial
Rack location U28	HC1	3228	NC	Initial
Rack location U29	HC1	3229	NC	Initial
Rack location U30	HC1	3230	NC	Initial
Rack location U31	HC1	3231	NC	Initial
Rack location U32	HC1	3232	NC	Initial
Rack location U33	HC1	3233	NC	Initial
Rack location U34	HC1	3234	NC	Initial
Rack location U35	HC1	3235	NC	Initial
Rack location U36	HC1	3236	NC	Initial
Rack location U37	HC1	3237	NC	Initial
Rack location U38	HC1	3238	NC	Initial

Rack location U39	HC1	3239	NC	Initial
Rack location U40	HC1	3240	NC	Initial
Rack location U41	HC1	3241	NC	Initial
Rack location U42	HC1	3242	NC	Initial
Rack location A	HC1	3251	NC	Initial
Rack location B	HC1	3252	NC	Initial
Rack location C	HC1	3253	NC	Initial
Rack location D	HC1	3254	NC	Initial
Rack location E	HC1	3255	NC	Initial
Rack location F	HC1	3256	NC	Initial
Rack location T	HC1	3259	NC	Initial
BladeCenter 01	HC1	3301	NC	Initial
BladeCenter 02	HC1	3302	NC	Initial
BladeCenter 03	HC1	3303	NC	Initial
BladeCenter 04	HC1	3304	NC	Initial
BladeCenter 05	HC1	3305	NC	Initial
BladeCenter 06	HC1	3306	NC	Initial
BladeCenter 07	HC1	3307	NC	Initial
BladeCenter 08	HC1	3308	NC	Initial
BladeCenter 09	HC1	3309	NC	Initial
BladeCenter 10	HC1	3310	NC	Initial
BladeCenter 11	HC1	3311	NC	Initial
BladeCenter 12	HC1	3312	NC	Initial
BladeCenter 13	HC1	3313	NC	Initial
BladeCenter 14	HC1	3314	NC	Initial
BladeCenter 15	HC1	3315	NC	Initial
BladeCenter 16	HC1	3316	NC	Initial
BladeCenter 17	HC1	3317	NC	Initial
BladeCenter 18	HC1	3318	NC	Initial
BladeCenter 19	HC1	3319	NC	Initial
BladeCenter 20	HC1	3320	NC	Initial
BladeCenter 21	HC1	3321	NC	Initial
BladeCenter 22	HC1	3322	NC	Initial
BladeCenter 23	HC1	3323	NC	Initial
BladeCenter 24	HC1	3324	NC	Initial
BladeCenter 25	HC1	3325	NC	Initial
BladeCenter 26	HC1	3326	NC	Initial
BladeCenter 27	HC1	3327	NC	Initial
BladeCenter 28	HC1	3328	NC	Initial
BladeCenter 29	HC1	3329	NC	Initial
BladeCenter 30	HC1	3330	NC	Initial
BladeCenter 31	HC1	3331	NC	Initial
BladeCenter 32	HC1	3332	NC	Initial
BladeCenter 33	HC1	3333	NC	Initial
BladeCenter 34	HC1	3334	NC	Initial
BladeCenter 35	HC1	3335	NC	Initial
BladeCenter 36	HC1	3336	NC	Initial
BladeCenter 37	HC1	3337	NC	Initial
BladeCenter 38	HC1	3338	NC	Initial
BladeCenter 39	HC1	3339	NC	Initial
BladeCenter 40	HC1	3340	NC	Initial
BladeCenter location 01	HC1	3401	NC	Initial
BladeCenter location 02	HC1	3402	NC	Initial
BladeCenter location 03	HC1	3403	NC	Initial
BladeCenter location 04	HC1	3404	NC	Initial
BladeCenter location 05	HC1	3405	NC	Initial
BladeCenter location 06	HC1	3406	NC	Initial
BladeCenter location 07	HC1	3407	NC	Initial
BladeCenter location 08	HC1	3408	NC	Initial
BladeCenter location 09	HC1	3409	NC	Initial
BladeCenter location 10	HC1	3410	NC	Initial
BladeCenter location 11	HC1	3411	NC	Initial
BladeCenter location 12	HC1	3412	NC	Initial
BladeCenter location 13	HC1	3413	NC	Initial
BladeCenter location 14	HC1	3414	NC	Initial
1m LC-LC Fiber Cable (networking)	HC1	3700	79	Initial
5m LC-LC Fiber Cable (networking)	HC1	3701	129	Initial
25m LC-LC Fiber Cable (networking)	HC1	3702	189	Initial
InfiniBand 4x 3 meter DDR Cable	HC1	3712	339	Initial
InfiniBand 4x 8 meter DDR Cable	HC1	3713	435	Initial
3m Console Switch Cable (USB)	HC1	3751	125	Initial
1m Myri com Quad Fiber Cable	HC1	3766	239	Initial
3m Myri com Quad Fiber Cable	HC1	3767	269	Initial
10m Myri com Quad Fiber Cable	HC1	3768	365	Initial

1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	HC1	3782	235	Initial
3m 10GBASE-CX4 Copper Cable	HC1	3783	265	Initial
10m 10GBASE-CX4 Copper Cable	HC1	3784	355	Initial
0.6m Yellow Cat5e Cable	HC1	3791	16	Initial
1.5m Yellow Cat5e Cable	HC1	3792	17	Initial
3m Yellow Cat5e Cable	HC1	3793	19	Initial
10m Yellow Cat5e Cable	HC1	3794	29	Initial
25m Yellow Cat5e Cable	HC1	3795	47	Initial
0.6m Green Cat5e Cable	HC1	3796	16	Initial
1.5m Green Cat5e Cable	HC1	3797	17	Initial
3m Green Cat5e Cable	HC1	3798	19	Initial
10m Green Cat5e Cable	HC1	3799	29	Initial
25m Green Cat5e Cable	HC1	3800	47	Initial
0.6m Blue Cat5e Cable	HC1	3801	16	Initial
1.5m Blue Cat5e Cable	HC1	3802	17	Initial
3m Blue Cat5e Cable	HC1	3803	19	Initial
10m Blue Cat5e Cable	HC1	3804	29	Initial
25m Blue Cat5e Cable	HC1	3805	47	Initial
Infiniband 12x to (3) 4x Cable 3 meter for IBM eServer BladeCenter	HC1	4255	499	Initial
InfiniBand 8 meter 4x Cable for IBM eServer BladeCenter	HC1	4294	399	Initial
InfiniBand 8 meter 12 to (3) 4x Cable for IBM eServer BladeCenter	HC1	4295	799	Initial
Infiniband 4x Cable 3 meter for IBM eServer BladeCenter	HC1	4296	249	Initial
IBM Short Wave(R) SFP Module	HC1	4299	150	Initial
IBM 10 GbE 850nm Fiber XFP Transceiver (SR)	HC1	4360	1,399	Initial
IBM 10 GbE 1310nm Fiber XFP Transceiver (LR)	HC1	4361	2,199	Initial
IBM CX4 1.5 Meter Cable	HC1	4362	79	Initial
IBM CX4 3.0 Meter Cable	HC1	4363	99	Initial
IBM BladeCenter Optical Pass-thru Module SC Cable for IBM BladeCenter	HC1	4364	225	Initial
IBM BladeCenter Optical Pass-thru Module LC Cable for IBM BladeCenter	HC1	4365	225	Initial
IBM BladeCenter Copper Pass-thru Module Cable for IBM BladeCenter	HC1	4366	79	Initial
IBM BladeCenter H Serial Port Breakout Cable	HC1	4811	99	Initial
IBM BladeCenter HT Bezel (Incl Filter and Cable Mgmt Collar)	HC1	4816	499	Initial
IBM BladeCenter HT Media Tray	HC1	4817	469	Initial
IBM BladeCenter HT Interposer for Gb Switches and Bridge Bays	HC1	4818	349	Initial
IBM BladeCenter HT Interposer for HS Switch Bay	HC1	4820	999	Initial
IBM BladeCenter HT Compact Flash 1GB	HC1	4821	359	Initial
IBM BladeCenter HT Compact Flash 4GB	HC1	4822	1,099	Initial
QLogic InfiniBand Ethernet Bridge Module for IBM BladeCenter Bay 3	HC1	7900	0	Initial
QLogic InfiniBand Ethernet Bridge Module for IBM BladeCenter Bay 4	HC1	7901	0	Initial
QLogic InfiniBand Fibre Channel Bridge Module for IBM BladeCenter Bay 3	HC1	7902	0	Initial
QLogic InfiniBand Fibre Channel Bridge Module for IBM BladeCenter Bay4	HC1	7903	0	Initial
Cisco Systems 4X InfiniBand Switch module for IBM BladeCenter in HSSM Bay 9	HC1	7904	0	Initial
Cisco Systems 4X InfiniBand Switch module for IBM BladeCenter in HSSM Bay 10	HC1	7905	0	Initial
Cisco Systems 4X InfiniBand Switch module for IBM BladeCenter in HSSM Bay 7	HC1	7906	0	Initial
Cisco Systems 4X InfiniBand Switch module for IBM BladeCenter in HSSM Bay 8	HC1	7907	0	Initial
Nortel 10 GB Ethernet Switch Module	HC1	7908	0	Initial

for IBM BladeCenter in Bay 7					
Nortel 10 GB Ethernet Switch Module	HC1	7909	0	Initial	
for IBM BladeCenter in Bay 8					
Nortel 10 GB Ethernet Switch Module	HC1	7910	0	Initial	
for IBM BladeCenter in Bay 9					
Nortel 10 GB Ethernet Switch Module	HC1	7911	0	Initial	
for IBM BladeCenter in Bay 10					
e1350 Special Bid Solution Component	HC1	7929	0	Initial	
IBM BladeCenter HT Interposer for Gb	HC1	7932	0	Initial	
Switches and Bridge in Bay 1					
IBM BladeCenter HT Interposer for Gb	HC1	7933	0	Initial	
Switches and Bridge in Bay 2					
IBM BladeCenter HT Interposer for Gb	HC1	7934	0	Initial	
Switches and Bridge in Bay 3					
IBM BladeCenter HT Interposer for Gb	HC1	7935	0	Initial	
Switches and Bridge in Bay 4					
Assm, HSS Interposer W/Inter-Switch	HC1	7950	0	Initial	
Link and Thumb Screws in Bay 7					
Assm, HSS Interposer W/Inter-Switch	HC1	7951	0	Initial	
Link and Thumb Screws in Bay 8					
Assm, HSS Interposer W/Inter-Switch	HC1	7952	0	Initial	
Link and Thumb Screws in Bay 9					
Assm, HSS Interposer W/Inter-Switch	HC1	7953	0	Initial	
Link and Thumb Screws in Bay 10					
BladeCenter HT Interposer for Gb	HC1	7954	0	Initial	
Switch/Bridge Bays with Interswitch					
Links (ISL) in Bay 1					
BladeCenter HT Interposer for Gb	HC1	7955	0	Initial	
Switch/Bridge Bays with Interswitch					
Links (ISL) in Bay 2					
BladeCenter HT Interposer for Gb	HC1	7956	0	Initial	
Switch/Bridge Bays with Interswitch					
Links (ISL) in Bay 3					
BladeCenter HT Interposer for Gb	HC1	7957	0	Initial	
Switch/Bridge Bays with Interswitch					
Links (ISL) in Bay 4					
Nortel 10 Gb Uplink Ethernet Switch	HC1	8032	NC	Initial	
Module for IBM BladeCenter in Bay 1					
Nortel 10 Gb Uplink Ethernet Switch	HC1	8033	NC	Initial	
Module for IBM BladeCenter in Bay 2					
e1350 Solution Component	HC1	8034	NC	Initial	
Server Connectivity Module for IBM	HC1	8041	NC	Initial	
BladeCenter in Bay 1					
Server Connectivity Module for IBM	HC1	8042	NC	Initial	
BladeCenter in Bay 2					
Server Connectivity Module for IBM	HC1	8043	NC	Initial	
BladeCenter in Bay 3					
Server Connectivity Module for IBM	HC1	8044	NC	Initial	
BladeCenter in Bay 4					
No Blade	HC1	8062	NC	Initial	
Nortel 10 Gb Uplink Ethernet Switch	HC1	8068	NC	Initial	
Module for IBM BladeCenter in Bay 3					
Nortel 10 Gb Uplink Ethernet Switch	HC1	8069	NC	Initial	
Module for IBM BladeCenter in Bay 4					
Cisco Systems Intelligent Gigabit	HC1	8070	NC	Initial	
Ethernet Switch Module for IBM					
BladeCenter in Bay 1					
Cisco Systems Intelligent Gigabit	HC1	8071	NC	Initial	
Ethernet Switch Module for IBM					
BladeCenter in Bay 2					
Integrate BladeCenter in	HC1	8077	NC	Initial	
Manufacturing					
No Ethernet Switch	HC1	8083	NC	Initial	
No Publications Selected	HC1	8086	NC	Initial	
Cisco Systems Intelligent Gigabit	HC1	8087	NC	Initial	
Ethernet Switch Module for IBM					
BladeCenter in Bay 3					
Cisco Systems Intelligent Gigabit	HC1	8088	NC	Initial	
Ethernet Switch Module for IBM					
BladeCenter in Bay 4					
IBM BladeCenter Copper Pass-thru	HC1	8089	NC	Initial	
Module for IBM BladeCenter in Bay 1					
IBM BladeCenter Copper Pass-thru	HC1	8090	NC	Initial	
Module for IBM BladeCenter in Bay 2					

IBM BladeCenter Copper Pass-thru Module for IBM BladeCenter in Bay 3	HC1	8091	NC	Initial
IBM BladeCenter Copper Pass-thru Module for IBM BladeCenter in Bay 4	HC1	8092	NC	Initial
Nortel L2/3 Copper GbESM for IBM BladeCenter in Bay 1	HC1	8093	NC	Initial
Nortel L2/3 Copper GbESM for IBM BladeCenter in Bay 2	HC1	8094	NC	Initial
Nortel L2/3 Copper GbESM for IBM BladeCenter in Bay 3	HC1	8095	NC	Initial
Nortel L2/3 Copper GbESM for IBM BladeCenter in Bay 4	HC1	8096	NC	Initial
Nortel Networks L2/L3 Fiber Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 1	HC1	8097	NC	Initial
Nortel Networks L2/L3 Fiber Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 2	HC1	8098	NC	Initial
Nortel Networks L2/L3 Fiber Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 3	HC1	8099	NC	Initial
Nortel Networks Layer 2-7 Gb Ethernet Switch Module for IBM BladeCenter in Bay 4	HC1	8100	NC	Initial
IBM BladeCenter Optical Pass-thru Module for IBM BladeCenter in Bay 1	HC1	8101	NC	Initial
IBM BladeCenter Optical Pass-thru Module for IBM BladeCenter in Bay 3	HC1	8102	NC	Initial
IBM BladeCenter Optical Pass-thru Module for IBM BladeCenter in Bay 4	HC1	8103	NC	Initial
IBM BladeCenter Optical Pass-thru Module for IBM BladeCenter in Bay 2	HC1	8104	NC	Initial
Cisco Systems Fiber Intelligent Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 1	HC1	8107	NC	Initial
Cisco Systems Fiber Intelligent Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 2	HC1	8108	NC	Initial
Cisco Systems Fiber Intelligent Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 3	HC1	8109	NC	Initial
Cisco Systems Fiber Intelligent Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 4	HC1	8110	NC	Initial
IBM BladeCenter HT Interposer for HS Switch in Bay 7	HC1	8130	0	Initial
IBM BladeCenter HT Interposer for HS Switch in Bay 8	HC1	8131	0	Initial
IBM BladeCenter HT Interposer for HS Switch in Bay 9	HC1	8132	0	Initial
IBM BladeCenter HT Interposer for HS Switch in Bay 10	HC1	8133	0	Initial
System Documentation and Software-U. S. English	HC1	8549	NC	Initial
System Documentation and Software-French	HC1	8558	NC	Initial
Brocade 4 Gb 20-port SAN Switch Module in Bay 3	HC1	8958	NC	Initial
Brocade 4 Gb 20-port SAN Switch Module in Bay 4	HC1	8959	NC	Initial
Brocade 4 Gb 10-port SAN Switch Module in Bay 3	HC1	8960	NC	Initial
Brocade 4 Gb 10-port SAN Switch Module in Bay 4	HC1	8961	NC	Initial
McDATA 4 Gb 20-port Fibre Channel Switch Module in Bay 3	HC1	8962	NC	Initial
McDATA 4 Gb 20-port Fibre Channel Switch Module in Bay 4	HC1	8963	NC	Initial
McDATA 4 Gb 10-port Fibre Channel Switch Module in Bay 3	HC1	8964	NC	Initial
McDATA 4 Gb 10-port Fibre Channel Switch Module in Bay 4	HC1	8965	NC	Initial
QLogic 4 Gb 10-port Fibre Channel Switch Module in Bay 3	HC1	8966	NC	Initial

QLogic 4 Gb 10-port Fibre Channel Switch Module in Bay 4	HC1	8967	NC	Initial
QLogic 4 Gb 20-port Fibre Channel Switch Module in Bay 3	HC1	8968	NC	Initial
QLogic 4 Gb 20-port Fibre Channel Switch Module in Bay 4	HC1	8969	NC	Initial
Integrate in manufacturing	HC1	8971	NC	Initial
Nortel Networks L2/L3 Fiber Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 4	HC1	8973	NC	Initial
Nortel Networks Layer 2-7 Gb Ethernet Switch Module for IBM BladeCenter in Bay 1	HC1	8974	NC	Initial
Nortel Networks Layer 2-7 Gb Ethernet Switch Module for IBM BladeCenter in Bay 2	HC1	8977	NC	Initial
Nortel Networks Layer 2-7 Gb Ethernet Switch Module for IBM BladeCenter in Bay 3	HC1	8979	NC	Initial
SUSE Specify	HC1	9203	NC	Initial
Drop-in-the-Box Specify	HC1	9205	NC	Initial
No Preload Specify	HC1	9206	NC	Initial

The following are newly announced features on the specified models of the IBM xSeries 8750 machine type:

Description	Model	Feature number	Purchase price	Initial / MES / both / support
BladeCenter HT (ac)	HC1		\$ 0	
Server Connectivity Module for IBM BladeCenter	HC1	1484	999	Initial
Nortel 10 Gb Uplink Ethernet Switch Module for IBM BladeCenter	HC1	1493	4,999	Initial
Nortel Networks Layer 2 -- 7 Gigabit Ethernet Switch Module for IBM BladeCenter	HC1	1494	8,999	Initial
Nortel Networks L2/L3 Copper Gigabit Ethernet Switch Module for IBM BladeCenter	HC1	1495	2,099	Initial
Nortel Networks L2/L3 Fiber Gigabit Ethernet Switch Module for IBM BladeCenter	HC1	1496	3,999	Initial
Cisco Systems Fiber Intelligent Gigabit Ethernet Switch Module for IBM BladeCenter	HC1	1497	4,999	Initial
Cisco Systems Intelligent Gigabit Ethernet Switch Module for IBM BladeCenter	HC1	1498	4,999	Initial
IBM BladeCenter Optical Pass-thru Module for IBM BladeCenter	HC1	1556	4,509	Initial
QLogic 4 Gb 20-port Fibre Channel Switch Module for IBM eServer BC	HC1	1560	13,999	Initial
McDATA 4 Gb 20-port Fibre Channel Switch Module for IBM eServer BC	HC1	1562	15,999	Initial
Brocade 4 Gb 20-port SAN Switch Module for IBM eServer BladeCenter	HC1	1569	14,999	Initial
Brocade 4 Gb 10-port SAN Switch Module for IBM eServer BladeCenter	HC1	1571	8,999	Initial
Cisco Systems 4X InfiniBand Switch module for IBM BladeCenter	HC1	1574	11,499	Initial
QLogic 4 Gb 10-port Fibre Channel Switch Module for IBM eServer BladeCenter	HC1	1575	8,999	Initial
McDATA 4 Gb 10-port Fibre Channel Switch Module for IBM eServer BladeCenter	HC1	1576	10,999	Initial
IBM BladeCenter KVM/Advanced Management Module	HC1	1604	849	Initial
Offload Manufacturing to ISTC	HC1	1770	0	Initial
Power Supply -- ac (BCHT)	HC1	1983	1,999	Initial
BCHT ac PS 1 and 2	HC1	1986	1,999	Initial

Labels for BCHT (8740 and 8750)	HC1	2019	NC	Initial
Backplane with Bracket	HC1	2020	NC	Initial
Service Card	HC1	2021	NC	Initial
IBM BladeCenter HT Advanced Management Module Interposer	HC1	2022	379	Initial
Multiplexer Expansion Module	HC1	2023	NC	Initial
Alarm Panel Module	HC1	2024	NC	Initial
BladeCenter HT Interposer for Gb Switch/Bridge Bays with Interswitch Links (ISL)	HC1	2035	359	Initial
Accessory Kit for 8750 ac System	HC1	2047	NC	Initial
Custom Asset Tagging -- Standard	HC1	2200	10	Initial
Custom Asset Tagging -- Standard	HC1	2201	20	Initial
Custom Labeling	HC1	2220	5	Initial
Custom Palletization	HC1	2221	5	Initial
Request for a new Vendor Logo Hardware	HC1	2247	NC	Initial
Request for an existing IBM Feature	HC1	2248	NC	Initial
Request for an existing Public RPQ	HC1	2249	NC	Initial
BladeCenter Chassis Configuration	HC1	2300	250	Initial
Department of Defense UID Label	HC1	2320	10	Initial
System Packaging -- WW	HC1	2558	NC	Initial
Base Hardware (ac Model)	HC1	2679	NC	Initial
IBM BladeCenter Copper Pass-thru Module for IBM BladeCenter	HC1	2900	699	Initial
QLogic Infiniband Ethernet Bridge Module for IBM BladeCenter	HC1	2941	8, 149	Initial
QLogic Infiniband Fibre Channel Bridge Module for IBM BladeCenter	HC1	2942	9, 799	Initial
Nortel 10 Gb Ethernet Switch Module for IBM BladeCenter	HC1	2952	9, 799	Initial
Install in Rack 01	HC1	3101	NC	Initial
Install in Rack 02	HC1	3102	NC	Initial
Install in Rack 03	HC1	3103	NC	Initial
Install in Rack 04	HC1	3104	NC	Initial
Install in Rack 05	HC1	3105	NC	Initial
Install in Rack 06	HC1	3106	NC	Initial
Install in Rack 07	HC1	3107	NC	Initial
Install in Rack 08	HC1	3108	NC	Initial
Install in Rack 09	HC1	3109	NC	Initial
Install in Rack 10	HC1	3110	NC	Initial
Install in Rack 11	HC1	3111	NC	Initial
Install in Rack 12	HC1	3112	NC	Initial
Install in Rack 13	HC1	3113	NC	Initial
Install in Rack 14	HC1	3114	NC	Initial
Install in Rack 15	HC1	3115	NC	Initial
Install in Rack 16	HC1	3116	NC	Initial
Install in Rack 17	HC1	3117	NC	Initial
Install in Rack 18	HC1	3118	NC	Initial
Install in Rack 19	HC1	3119	NC	Initial
Install in Rack 20	HC1	3120	NC	Initial
Install in Rack 21	HC1	3121	NC	Initial
Install in Rack 22	HC1	3122	NC	Initial
Install in Rack 23	HC1	3123	NC	Initial
Install in Rack 24	HC1	3124	NC	Initial
Install in Rack 25	HC1	3125	NC	Initial
Install in Rack 26	HC1	3126	NC	Initial
Install in Rack 27	HC1	3127	NC	Initial
Install in Rack 28	HC1	3128	NC	Initial
Install in Rack 29	HC1	3129	NC	Initial
Install in Rack 30	HC1	3130	NC	Initial
Install in Rack 31	HC1	3131	NC	Initial
Install in Rack 32	HC1	3132	NC	Initial
Install in Rack 33	HC1	3133	NC	Initial
Install in Rack 34	HC1	3134	NC	Initial
Install in Rack 35	HC1	3135	NC	Initial
Install in Rack 36	HC1	3136	NC	Initial
Install in Rack 37	HC1	3137	NC	Initial
Install in Rack 38	HC1	3138	NC	Initial
Install in Rack 39	HC1	3139	NC	Initial
Install in Rack 40	HC1	3140	NC	Initial
Install in Rack 41	HC1	3141	NC	Initial
Install in Rack 42	HC1	3142	NC	Initial
Install in Rack 43	HC1	3143	NC	Initial

Install in Rack 44	HC1	3144	NC	Initial
Install in Rack 45	HC1	3145	NC	Initial
Install in Rack 46	HC1	3146	NC	Initial
Install in Rack 47	HC1	3147	NC	Initial
Install in Rack 48	HC1	3148	NC	Initial
Install in Rack 49	HC1	3149	NC	Initial
Install in Rack 50	HC1	3150	NC	Initial
Install in Rack 51	HC1	3151	NC	Initial
Install in Rack 52	HC1	3152	NC	Initial
Install in Rack 53	HC1	3153	NC	Initial
Install in Rack 54	HC1	3154	NC	Initial
Install in Rack 55	HC1	3155	NC	Initial
Install in Rack 56	HC1	3156	NC	Initial
Install in Rack 57	HC1	3157	NC	Initial
Install in Rack 58	HC1	3158	NC	Initial
Install in Rack 59	HC1	3159	NC	Initial
Install in Rack 60	HC1	3160	NC	Initial
Install in Rack 61	HC1	3161	NC	Initial
Install in Rack 62	HC1	3162	NC	Initial
Install in Rack 63	HC1	3163	NC	Initial
Install in Rack 64	HC1	3164	NC	Initial
Rack location U01	HC1	3201	NC	Initial
Rack location U02	HC1	3202	NC	Initial
Rack location U03	HC1	3203	NC	Initial
Rack location U04	HC1	3204	NC	Initial
Rack location U05	HC1	3205	NC	Initial
Rack location U06	HC1	3206	NC	Initial
Rack location U07	HC1	3207	NC	Initial
Rack location U08	HC1	3208	NC	Initial
Rack location U09	HC1	3209	NC	Initial
Rack location U10	HC1	3210	NC	Initial
Rack location U11	HC1	3211	NC	Initial
Rack location U12	HC1	3212	NC	Initial
Rack location U13	HC1	3213	NC	Initial
Rack location U14	HC1	3214	NC	Initial
Rack location U15	HC1	3215	NC	Initial
Rack location U16	HC1	3216	NC	Initial
Rack location U17	HC1	3217	NC	Initial
Rack location U18	HC1	3218	NC	Initial
Rack location U19	HC1	3219	NC	Initial
Rack location U20	HC1	3220	NC	Initial
Rack location U21	HC1	3221	NC	Initial
Rack location U22	HC1	3222	NC	Initial
Rack location U23	HC1	3223	NC	Initial
Rack location U24	HC1	3224	NC	Initial
Rack location U25	HC1	3225	NC	Initial
Rack location U26	HC1	3226	NC	Initial
Rack location U27	HC1	3227	NC	Initial
Rack location U28	HC1	3228	NC	Initial
Rack location U29	HC1	3229	NC	Initial
Rack location U30	HC1	3230	NC	Initial
Rack location U31	HC1	3231	NC	Initial
Rack location U32	HC1	3232	NC	Initial
Rack location U33	HC1	3233	NC	Initial
Rack location U34	HC1	3234	NC	Initial
Rack location U35	HC1	3235	NC	Initial
Rack location U36	HC1	3236	NC	Initial
Rack location U37	HC1	3237	NC	Initial
Rack location U38	HC1	3238	NC	Initial
Rack location U39	HC1	3239	NC	Initial
Rack location U40	HC1	3240	NC	Initial
Rack location U41	HC1	3241	NC	Initial
Rack location U42	HC1	3242	NC	Initial
Rack location A	HC1	3251	NC	Initial
Rack location B	HC1	3252	NC	Initial
Rack location C	HC1	3253	NC	Initial
Rack location D	HC1	3254	NC	Initial
Rack location E	HC1	3255	NC	Initial
Rack location F	HC1	3256	NC	Initial
Rack location T	HC1	3259	NC	Initial
BladeCenter 01	HC1	3301	NC	Initial
BladeCenter 02	HC1	3302	NC	Initial
BladeCenter 03	HC1	3303	NC	Initial
BladeCenter 04	HC1	3304	NC	Initial

BladeCenter 05	HC1	3305	NC	Initial
BladeCenter 06	HC1	3306	NC	Initial
BladeCenter 07	HC1	3307	NC	Initial
BladeCenter 08	HC1	3308	NC	Initial
BladeCenter 09	HC1	3309	NC	Initial
BladeCenter 10	HC1	3310	NC	Initial
BladeCenter 11	HC1	3311	NC	Initial
BladeCenter 12	HC1	3312	NC	Initial
BladeCenter 13	HC1	3313	NC	Initial
BladeCenter 14	HC1	3314	NC	Initial
BladeCenter 15	HC1	3315	NC	Initial
BladeCenter 16	HC1	3316	NC	Initial
BladeCenter 17	HC1	3317	NC	Initial
BladeCenter 18	HC1	3318	NC	Initial
BladeCenter 19	HC1	3319	NC	Initial
BladeCenter 20	HC1	3320	NC	Initial
BladeCenter 21	HC1	3321	NC	Initial
BladeCenter 22	HC1	3322	NC	Initial
BladeCenter 23	HC1	3323	NC	Initial
BladeCenter 24	HC1	3324	NC	Initial
BladeCenter 25	HC1	3325	NC	Initial
BladeCenter 26	HC1	3326	NC	Initial
BladeCenter 27	HC1	3327	NC	Initial
BladeCenter 28	HC1	3328	NC	Initial
BladeCenter 29	HC1	3329	NC	Initial
BladeCenter 30	HC1	3330	NC	Initial
BladeCenter 31	HC1	3331	NC	Initial
BladeCenter 32	HC1	3332	NC	Initial
BladeCenter 33	HC1	3333	NC	Initial
BladeCenter 34	HC1	3334	NC	Initial
BladeCenter 35	HC1	3335	NC	Initial
BladeCenter 36	HC1	3336	NC	Initial
BladeCenter 37	HC1	3337	NC	Initial
BladeCenter 38	HC1	3338	NC	Initial
BladeCenter 39	HC1	3339	NC	Initial
BladeCenter 40	HC1	3340	NC	Initial
BladeCenter location 01	HC1	3401	NC	Initial
BladeCenter location 02	HC1	3402	NC	Initial
BladeCenter location 03	HC1	3403	NC	Initial
BladeCenter location 04	HC1	3404	NC	Initial
BladeCenter location 05	HC1	3405	NC	Initial
BladeCenter location 06	HC1	3406	NC	Initial
BladeCenter location 07	HC1	3407	NC	Initial
BladeCenter location 08	HC1	3408	NC	Initial
BladeCenter location 09	HC1	3409	NC	Initial
BladeCenter location 10	HC1	3410	NC	Initial
BladeCenter location 11	HC1	3411	NC	Initial
BladeCenter location 12	HC1	3412	NC	Initial
BladeCenter location 13	HC1	3413	NC	Initial
BladeCenter location 14	HC1	3414	NC	Initial
1m LC-LC Fiber Cable (networking)	HC1	3700	79	Initial
5m LC-LC Fiber Cable (networking)	HC1	3701	129	Initial
25m LC-LC Fiber Cable (networking)	HC1	3702	189	Initial
InfiniBand 4x 3 meter DDR Cable	HC1	3712	339	Initial
InfiniBand 4x 8 meter DDR Cable	HC1	3713	435	Initial
3m Console Switch Cable (USB)	HC1	3751	125	Initial
1m Myricom Quad Fiber Cable	HC1	3766	239	Initial
3m Myricom Quad Fiber Cable	HC1	3767	269	Initial
10m Myricom Quad Fiber Cable	HC1	3768	365	Initial
1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	HC1	3782	235	Initial
3m 10 GBASE-CX4 Copper Cable	HC1	3783	265	Initial
10m 10 GBASE-CX4 Copper Cable	HC1	3784	355	Initial
0.6m Yellow Cat5e Cable	HC1	3791	16	Initial
1.5m Yellow Cat5e Cable	HC1	3792	17	Initial
3m Yellow Cat5e Cable	HC1	3793	19	Initial
10m Yellow Cat5e Cable	HC1	3794	29	Initial
25m Yellow Cat5e Cable	HC1	3795	47	Initial
0.6m Green Cat5e Cable	HC1	3796	16	Initial
1.5m Green Cat5e Cable	HC1	3797	17	Initial
3m Green Cat5e Cable	HC1	3798	19	Initial
10m Green Cat5e Cable	HC1	3799	29	Initial
25m Green Cat5e Cable	HC1	3800	47	Initial
0.6m Blue Cat5e Cable	HC1	3801	16	Initial

1.5m Blue Cat5e Cable	HC1	3802	17	Initial
3m Blue Cat5e Cable	HC1	3803	19	Initial
10m Blue Cat5e Cable	HC1	3804	29	Initial
25m Blue Cat5e Cable	HC1	3805	47	Initial
Infiniband 12x to (3) 4x Cable 3 meter for IBM eServer BladeCenter	HC1	4255	499	Initial
InfiniBand 8 meter 4x Cable for IBM eServer BladeCenter	HC1	4294	339	Initial
InfiniBand 8 meter 12 to (3) 4x Cable for IBM eServer BladeCenter	HC1	4295	799	Initial
Infiniband 4x Cable 3 meter for IBM eServer BladeCenter	HC1	4296	249	Initial
IBM Short Wave SFP Module	HC1	4299	150	Initial
IBM 10 GbE 850nm Fiber XFP Transceiver (SR)	HC1	4360	1,399	Initial
IBM 10 GbE 1310nm Fiber XFP Transceiver (LR)	HC1	4361	2,199	Initial
IBM CX4 1.5 Meter Cable	HC1	4362	79	Initial
IBM CX4 3.0 Meter Cable	HC1	4363	99	Initial
IBM BladeCenter Optical Pass-thru Module SC Cable for IBM BladeCenter	HC1	4364	225	Initial
IBM BladeCenter Optical Pass-thru Module LC Cable for IBM BladeCenter	HC1	4365	225	Initial
IBM BladeCenter Copper Pass-thru Module Cable for IBM BladeCenter	HC1	4366	79	Initial
IBM BladeCenter H Serial Port Breakout Cable	HC1	4811	99	Initial
IBM BladeCenter HT Bezel (Incl Filter and Cable Mgmt Collar)	HC1	4816	499	Initial
IBM BladeCenter HT Media Tray	HC1	4817	469	Initial
IBM BladeCenter HT Interposer for Gb Switches and Bridge Bays	HC1	4818	349	Initial
IBM BladeCenter HT Interposer for HS Switch Bay	HC1	4820	999	Initial
IBM BladeCenter HT Compact Flash 1GB	HC1	4821	359	Initial
IBM BladeCenter HT Compact Flash 4GB	HC1	4822	1,099	Initial
AC Jumper Cord C19 Right Angle/C20	HC1	6527	99	Initial
QLogic InfiniBand Ethernet Bridge Module for IBM BladeCenter Bay 3	HC1	7900	0	Initial
QLogic InfiniBand Ethernet Bridge Module for IBM BladeCenter Bay 4	HC1	7901	0	Initial
QLogic InfiniBand Fibre Channel Bridge Module for IBM BladeCenter Bay 3	HC1	7902	0	Initial
QLogic InfiniBand Fibre Channel Bridge Module for IBM BladeCenter Bay4	HC1	7903	0	Initial
Cisco Systems 4X InfiniBand Switch module for IBM BladeCenter in HSSM Bay 9	HC1	7904	0	Initial
Cisco Systems 4X InfiniBand Switch module for IBM BladeCenter in HSSM Bay 10	HC1	7905	0	Initial
Cisco Systems 4X InfiniBand Switch module for IBM BladeCenter in HSSM Bay 7	HC1	7906	0	Initial
Cisco Systems 4X InfiniBand Switch module for IBM BladeCenter in HSSM Bay 8	HC1	7907	0	Initial
Nortel 10 GB Ethernet Switch Module for IBM BladeCenter in Bay 7	HC1	7908	0	Initial
Nortel 10 GB Ethernet Switch Module for IBM BladeCenter in Bay 8	HC1	7909	0	Initial
Nortel 10 GB Ethernet Switch Module for IBM BladeCenter in Bay 9	HC1	7910	0	Initial
Nortel 10 GB Ethernet Switch Module for IBM BladeCenter in Bay 10	HC1	7911	0	Initial
e1350 Special Bid Solution Component	HC1	7929	0	Initial
IBM BladeCenter HT Interposer for Gb Switches and Bridge in Bay 1	HC1	7932	0	Initial
IBM BladeCenter HT Interposer for Gb Switches and Bridge in Bay 2	HC1	7933	0	Initial
IBM BladeCenter HT Interposer for Gb Switches and Bridge in Bay 3	HC1	7934	0	Initial

IBM BladeCenter HT Interposer for Gb Switches and Bridge in Bay 4	HC1	7935	0	Initial
Assm, HSS Interposer W/Inter-Switch Link and Thumb Screws in Bay 7	HC1	7950	0	Initial
Assm, HSS Interposer W/Inter-Switch Link and Thumb Screws in Bay 8	HC1	7951	0	Initial
Assm, HSS Interposer W/Inter-Switch Link and Thumb Screws in Bay 9	HC1	7952	0	Initial
Assm, HSS Interposer W/Inter-Switch Link and Thumb Screws in Bay 10	HC1	7953	0	Initial
BladeCenter HT Interposer for Gb Switch/Bridge Bays with Interswitch Links (ISL) in Bay 1	HC1	7954	0	Initial
BladeCenter HT Interposer for Gb Switch/Bridge Bays with Interswitch Links (ISL) in Bay 2	HC1	7955	0	Initial
BladeCenter HT Interposer for Gb Switch/Bridge Bays with Interswitch Links (ISL) in Bay 3	HC1	7956	0	Initial
BladeCenter HT Interposer for Gb Switch/Bridge Bays with Interswitch Links (ISL) in Bay 4	HC1	7957	0	Initial
Nortel 10 Gb Uplink Ethernet Switch Module for IBM BladeCenter in Bay 1	HC1	8032	NC	Initial
Nortel 10 Gb Uplink Ethernet Switch Module for IBM BladeCenter in Bay 2	HC1	8033	NC	Initial
e1350 Solution Component	HC1	8034	NC	Initial
Server Connectivity Module for IBM BladeCenter in Bay 1	HC1	8041	NC	Initial
Server Connectivity Module for IBM BladeCenter in Bay 2	HC1	8042	NC	Initial
Server Connectivity Module for IBM BladeCenter in Bay 3	HC1	8043	NC	Initial
Server Connectivity Module for IBM BladeCenter in Bay 4	HC1	8044	NC	Initial
No Blade	HC1	8062	NC	Initial
Nortel 10 Gb Uplink Ethernet Switch Module for IBM BladeCenter in Bay 3	HC1	8068	NC	Initial
Nortel 10 Gb Uplink Ethernet Switch Module for IBM BladeCenter in Bay 4	HC1	8069	NC	Initial
Cisco Systems Intelligent Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 1	HC1	8070	NC	Initial
Cisco Systems Intelligent Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 2	HC1	8071	NC	Initial
Integrate BladeCenter in Manufacturing	HC1	8077	NC	Initial
No Ethernet Switch	HC1	8083	NC	Initial
No Publications Selected	HC1	8086	NC	Initial
Cisco Systems Intelligent Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 3	HC1	8087	NC	Initial
Cisco Systems Intelligent Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 4	HC1	8088	NC	Initial
IBM BladeCenter Copper Pass-thru Module for IBM BladeCenter in Bay 1	HC1	8089	NC	Initial
IBM BladeCenter Copper Pass-thru Module for IBM BladeCenter in Bay 2	HC1	8090	NC	Initial
IBM BladeCenter Copper Pass-thru Module for IBM BladeCenter in Bay 3	HC1	8091	NC	Initial
IBM BladeCenter Copper Pass-thru Module for IBM BladeCenter in Bay 4	HC1	8092	NC	Initial
Nortel L2/3 Copper GbESM for IBM BladeCenter in Bay 1	HC1	8093	NC	Initial
Nortel L2/3 Copper GbESM for IBM BladeCenter in Bay 2	HC1	8094	NC	Initial
Nortel L2/3 Copper GbESM for IBM BladeCenter in Bay 3	HC1	8095	NC	Initial
Nortel L2/3 Copper GbESM for IBM BladeCenter in Bay 4	HC1	8096	NC	Initial
Nortel Networks L2/L3 Fiber Gigabit Ethernet Switch Module for IBM	HC1	8097	NC	Initial

BladeCenter in Bay 1					
Nortel Networks L2/L3 Fiber Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 2	HC1	8098	NC	Initial	
Nortel Networks L2/L3 Fiber Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 3	HC1	8099	NC	Initial	
Nortel Networks Layer 2-7 Gb Ethernet Switch Module for IBM BladeCenter in Bay 4	HC1	8100	NC	Initial	
IBM BladeCenter Optical Pass-thru Module for IBM BladeCenter in Bay 1	HC1	8101	NC	Initial	
IBM BladeCenter Optical Pass-thru Module for IBM BladeCenter in Bay 3	HC1	8102	NC	Initial	
IBM BladeCenter Optical Pass-thru Module for IBM BladeCenter in Bay 4	HC1	8103	NC	Initial	
IBM BladeCenter Optical Pass-thru Module for IBM BladeCenter in Bay 2	HC1	8104	NC	Initial	
Cisco Systems Fiber Intelligent Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 1	HC1	8107	NC	Initial	
Cisco Systems Fiber Intelligent Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 2	HC1	8108	NC	Initial	
Cisco Systems Fiber Intelligent Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 3	HC1	8109	NC	Initial	
Cisco Systems Fiber Intelligent Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 4	HC1	8110	NC	Initial	
IBM BladeCenter HT Interposer for Switch in Bay 7	HS HC1	8130	0	Initial	
IBM BladeCenter HT Interposer for Switch in Bay 8	HS HC1	8131	0	Initial	
IBM BladeCenter HT Interposer for Switch in Bay 9	HS HC1	8132	0	Initial	
IBM BladeCenter HT Interposer for Switch in Bay 10	HS HC1	8133	0	Initial	
System Documentation and Software-U. S. English	HC1	8549	NC	Initial	
System Documentation and Software-French	HC1	8558	NC	Initial	
Brocade 4 Gb 20-port SAN Switch Module in Bay 3	HC1	8958	NC	Initial	
Brocade 4 Gb 20-port SAN Switch Module in Bay 4	HC1	8959	NC	Initial	
Brocade 4 Gb 10-port SAN Switch Module in Bay 3	HC1	8960	NC	Initial	
Brocade 4 Gb 10-port SAN Switch Module in Bay 4	HC1	8961	NC	Initial	
McDATA 4 Gb 20-port Fibre Channel Switch Module in Bay 3	HC1	8962	NC	Initial	
McDATA 4 Gb 20-port Fibre Channel Switch Module in Bay 4	HC1	8963	NC	Initial	
McDATA 4 Gb 10-port Fibre Channel Switch Module in Bay 3	HC1	8964	NC	Initial	
McDATA 4 Gb 10-port Fibre Channel Switch Module in Bay 4	HC1	8965	NC	Initial	
QLogic 4 Gb 10-port Fibre Channel Switch Module in Bay 3	HC1	8966	NC	Initial	
QLogic 4 Gb 10-port Fibre Channel Switch Module in Bay 4	HC1	8967	NC	Initial	
QLogic 4 Gb 20-port Fibre Channel Switch Module in Bay 3	HC1	8968	NC	Initial	
QLogic 4 Gb 20-port Fibre Channel Switch Module in Bay 4	HC1	8969	NC	Initial	
Integrate in manufacturing	HC1	8971	NC	Initial	
Nortel Networks L2/L3 Fiber Gigabit Ethernet Switch Module for IBM BladeCenter in Bay 4	HC1	8973	NC	Initial	
Nortel Networks Layer 2-7 Gb Ethernet Switch Module for IBM BladeCenter in Bay 1	HC1	8974	NC	Initial	
Nortel Networks Layer 2-7 Gb Ethernet Switch Module for IBM BladeCenter in Bay 1	HC1	8977	NC	Initial	

Ethernet Switch Module for IBM BladeCenter in Bay 2				
Nortel Networks Layer 2-7 Gb Ethernet Switch Module for IBM BladeCenter in Bay 3	HC1	8979	NC	Initial
SUSE Specify	HC1	9203	NC	Initial
Drop-in-the-Box Specify	HC1	9205	NC	Initial
No Preload Specify	HC1	9206	NC	Initial

The Single Entity Offerings (SEO)

Description	SEO number	IBM list price
IBM BladeCenter HT dc Power Model	87401RU	\$13,999
IBM BladeCenter HT ac Power Model	87501RU	13,499

Option SEO

Description	SEO number	Price
IBM BladeCenter HT dc Power Supply Module	42C5279	\$2,299
IBM BladeCenter HT ac Power Supply Module	42C5280	1,999
IBM BladeCenter HT 2-Post Rack Mount Kit	42C5281	399
IBM BladeCenter HT 4-Post Rack Mount Kit	42C5284	399
IBM BladeCenter HT Advanced Mgmt Module Interposer	42C5315	379
IBM BladeCenter HT Interposer for Gb Switch and Bridge Bays	42C5300	349
IBM BladeCenter HT Interposer for Gb Switch/Bridge Bays with Interswitch Links (ISL)	42C5301	359
IBM BladeCenter HT Interposer for HS Switch Bay	42C5302	999
IBM BladeCenter HT Redundant Media Tray	42C5305	469
IBM BladeCenter HT Compact Flash 1 GB	42C5307	359
IBM BladeCenter HT Compact Flash 4 GB	42C5310	1,099
IBM BladeCenter HT Bezel (include Filter and Cable Mgmt Collar)	42C5278	499
IBM BladeCenter HT Filter (4 pack)	42C5316	399

* IBM list price does not include tax or shipping and is subject to change without notice. Reseller prices may vary.

Publication charges: None

ServicePac for warranty and maintenance charges (Ivory Letter)

Machine type/model	Description	ServicePac part number	ServicePac TMF part number
8740-1RU	1-year MA IOR 24 x 7	69P9385	6756D37
8750-1RU	2-hour average response	69P9385	
8740-1RU	2-year MA IOR 24 x 7	96P2104	6756D59
8750-1RU	2-hour average response	96P2104	
8740-1RU	3-year IOR 24 x 7	21P2065	6756021
8750-1RU	2-hour average response	21P2065	
8740-1RU	4-year IOR 24 x 7	69P9205	6756100
8750-1RU	2-hour average response	69P9205	
8740-1RU	5-year IOR 24 x 7	69P9209	6756091
8750-1RU	2-hour average response	69P9209	
8740-1RU	1-year MA IOR 24 x 7	69P9384	6756D36
8750-1RU	4-hour average response	69P9384	
8740-1RU	2-year MA IOR 24 x 7	96P2103	6756D58
8750-1RU	4-hour average response	96P2103	

8740- 1RU	3-year IOR 24 x 7	30L9185	6756338
8750- 1RU	4-hour average response	30L9185	
8740- 1RU	4-year IOR 24 x 7	69P9204	6756099
8750- 1RU	4-hour average response	69P9204	
8740- 1RU	5-year IOR 24 x 7	69P9208	6756090
8750- 1RU	4-hour average response	69P9208	
8740- 1RU	1-year MA IOR 9 x 5	69P9383	6756D35
8750- 1RU	4-hour average response	69P9383	
8740- 1RU	2-year MA IOR 9 x 5	96P2102	6756D57
8750- 1RU	4-hour average response	96P2102	
8740- 1RU	3-year IOR 9 x 5	41L2736	6756075
8750- 1RU	4-hour average response	41L2736	
8740- 1RU	4-year IOR 9 x 5	69P9203	6756098
8750- 1RU	4-hour average response	69P9203	
8740- 1RU	5-year IOR 9 x 5	69P9207	6756089
8750- 1RU	4-hour average response	69P9207	
8740- 1RU	1-year MA IOR 9 x 5	69P9382	6756D34
8750- 1RU	NBD response	69P9382	
8740- 1RU	2-year MA IOR 9 x 5	96P2101	6756D56
8750- 1RU	NBD response	96P2101	
8740- 1RU	4-year IOR 9 x 5	69P9202	6756097
8750- 1RU	NBD response	69P9202	
8740- 1RU	5-year IOR 9 x 5	69P9206	6756088
8750- 1RU	NBD response	69P9206	

These ServicePac offerings are valid for models announced in the United States.

Maintenance service charges (legacy)(IOR)

Alternative service (warranty service upgrades)

Machine type/model	IWR
740- 1Rx	\$750
750- 1Rx	750

Maintenance service

Machine type/model	I08 9 x 5	IOR 24 x 7
8740- 1Rx	\$475	\$713
8750- 1Rx	475	713

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

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