



IBM Real-time Compression Appliance STN7800 supports IBM Compression Software

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At a glance

IBM® Real-time Compression Appliance™ STN7800 (2452-780) offers availability of three feature codes based on connectivity requirements:

- Sixteen 1GbE Copper Ports (#2001)
- Four 10GbE Optical and 8 x 1GbE Copper Ports (#2005)
- Eight 10GbE Optical Ports (#2015)

Benefits

- Real-time compression of active primary network attached storage (NAS) data up to 80%
- Lossless compression is executed in real-time as data gets stored on the NAS system
- Slows the growth of storage acquisition and related storage lifecycle costs

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

Overview

IBM Real-time Compression Appliance STN7800 provides online storage optimization through real-time data compression with no impact to application performance. The STN7800 is designed to transparently compress data in NAS environments by up to 80%. IBM Real-time Compression™ Appliances are designed to optimize NAS capacity and help slow the growth of network attached storage, reducing the amount of storage to be managed, powered, and cooled.

Key prerequisites

IBM Real-time Compression Software V4.1.

Refer to Software Announcement [213-016](#), dated February 05, 2013 , for more information.

Planned availability date

February 15, 2013

Description

IBM Real-time Compression Appliances are designed to help meet the demands of rapid data growth, while enhancing storage efficiency. All IBM Real-time Compression Appliances apply IBM patented real-time data compression techniques to primary and existing storage, delivering optimization and savings throughout the entire storage lifecycle. The result is exceptional cost savings and operational and environmental efficiencies.

Performance: IBM Real-time Compression Appliance STN7800 sets a new level of primary storage efficiency performance capabilities. This new model supports more than twice the throughput of previous generation appliances and can reach sustained throughput of more than 2.4 GB/sec. This enables high-performance NAS environments to get the Real-time Compression benefits for all enterprise application workloads including the highest demanding performance applications.

Random Access Compression Engine Architecture: IBM Real-time Compression Appliance architecture is based on proven Lempel-Ziv (LZ) data compression algorithms. Real-time compression enables the IBM Real-time Compression Appliances to deliver real-time, random access, and deterministic data compression, while maintaining reliable and consistent performance.

High availability: IBM Real-time Compression Appliances are fully redundant components and deploy seamlessly into high-availability environments. Enhanced monitoring enables greater visibility into high availability environments.

Note: In mission-critical environments, it is highly recommended that two IBM Real-time Compression Appliances be installed as redundant configuration to help ensure the highest availability.

Base machines include the following with IBM Real-time Compression Appliance STN7800 (2452-780):

- Based on IBM System x3650 M4 model
- Dual Xeon E2680 8 Cores 2.70 GHz, 20 MB Cache Processors
- 96 GB RDIMM
- Dual 300 GB 10K 6 Gbps SAS Hard Drives
- DVD-ROM Optical drive
- Redundant 900W AC power supplies
- One 3 m Blue Cat5e cable
- One 3.7 m RS-232 cable
- Two C13-C14 PDU power cords

Accessibility by people with disabilities

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

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

Section 508 of the US Rehabilitation Act

A US 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 number

Description	Machine	Model	Feature
IBM Real-time Compression Appliance STN7800	2452	780	
Features			
16x1GbE Copper Ports	2452	780	2001
4x10GbE Optical and 8x1GbE Copper Ports	2452	780	2005
8x10GbE Optical Ports	2452	780	2015
3m Green Cat5e Ethernet Cable	2452	780	3003
5m LC-LC Optical Cable	2452	780	3705

Additional information

Feature descriptions

16x1GbE Copper Ports (#2001)

This feature provides 16 1GbE Copper ports.

4x10GbE Optical and 8x1GbE Copper Ports (#2005)

This feature provides 4 10GbE Optical ports and 8 1GbE Copper ports.

8x10GbE Optical Ports (#2015)

This feature provides 8 10GbE Optical ports.

3m Green Cat5e Ethernet Cable (#3003)

This feature provides one 3-meter Green Cat5e cable with RJ-45 connectors for 1 Gb Ethernet connection.

5m LC-LC Optical Cable (#3705)

This feature provides one 5-meter LC-LC Optical cable for 10 Gb Ethernet connections.

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=113-012>

Publications

Publications are shipped in hardcopy, on the Documentation CD, or both with the Real-time Compression Appliance hardware. The hardcopy documents are also available in Adobe™ Acrobat PDF format on the CD and available for browsing or printing. The Documentation CD and select documents are available as no-charge downloadable files from the IBM Publications Center website.

The following publications are shipped as hardcopy with the product:

Title	Order number
RtCA Documentation CD	LCD8-1715
RtCA Installation and Planning Guide	GI13-1221
IBM Statement of Limited Warranty	GI13-1222
International Agreement for Acquisition of Software Maintenance	Z125-6011
International Program License Agreement	Z125-3301
RtCA Software License Information	GC27-3908
Licenses and Attributions Document	Z125-5589
License Agreement for Machine Code	Z125-5468
Croatia WEEE flyer	N/A
IBM Systems Safety Notices	G229-9054

The hardcopy documents are also in PDF format on the Documentation CD. The CD also has the following documents:

Title	Order number
RtCA Administration Guide	N/A
RtCA CLI Command Reference	N/A
RtCA Software Notices and Information	
IBM Systems Environmental Notices and User Guide	Z125-5823
IBM Safety Information	N/A
IBM System x3650 M4 (7915) Problem Determination and Service Guide	N/A
Rack Installation Instructions for IBM Gen-II Slides Kit	N/A

Additional publications are not available for order.

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.

Specified operating environment

Physical specifications

- Width: 445.0 mm (17.5 in)
- Depth: 746.0 mm (29.4 in)
- Height: 86.5 mm (3.4 in)
- Weight:
 - Minimum configuration: 25 kg (55 lb)
 - Maximum configuration: 30 kg (65 lb)

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

Operating environment

Air temperature:

- Server on: 5° to 40° degrees C (41° to 104° degrees F): altitude: 0 to 915 m (3,000 ft) for 60W to 95W processor models
- Server on: 10° to 35° degrees C (50° to 95° degrees F): altitude: 0 to 915 m (3,000 ft) for 115W to 135W processor models
- Server off: 5° to 45° degrees C (41° to 113° degrees F)
- Shipment: -40° C to 60° C (-40° F to 140° F)

Humidity:

- For 115W to 130W processors/135W processor models:
 - Server on: 20% to 80%, maximum dew point 21° C, maximum rate of change 5° C/hr
 - Server off: 8% to 80%, maximum dew point 27° C

Electrical:

- Models with 900 W power supplies:
 - 100 to 127 (nominal) V ac; 50 Hz or 60 Hz; 10 A
 - 200 to 240 (nominal) V ac; 50 Hz or 60 Hz; 5 A
 - Input kilovolt-amperes (kVA) (approximately):
 - Minimum configuration: 0.15 kVA
 - Maximum configuration: 1.02 kVA
- Models with 750 W ac power supplies:
 - 100 to 127 (nominal) V ac; 50 Hz or 60 Hz; 8.9 A
 - 200 to 240 (nominal) V ac; 50 Hz or 60 Hz; 4.5 A
 - Input kilovolt-amperes (kVA) (approximately):
 - Minimum configuration: 0.15 kVA
 - Maximum configuration: 0.9 kVA
- Models with 550 W power supplies:
 - 100 to 127 (nominal) V ac; 50 Hz or 60 Hz; 6.5 A
 - 200 to 240 (nominal) V ac; 50 Hz or 60 Hz; 3.3 A
 - Input kilovolt-amperes (kVA) (approximately):
 - Minimum configuration: 0.16 kVA

-- Maximum configuration: 0.66 kVA

BTU output:

- Minimum configuration: 525 Btu/hr (123 watts)
- Maximum configuration: 3480 Btu/hr (1020 watts)

Noise level:

- 6.6 bels (operating)
- 6.4 bels (idle)

Yes

Homologation

This product is certified only in the following countries for connection to interfaces of public telecommunications networks:

Albania
Algeria
Andorra
Angola
Anguilla
Antigua and Barbuda
Argentina
Armenia
Aruba
Australia
Bahamas (The)
Bahrain
Bangladesh
Barbados
Belize
Benin
Bermuda
Bolivia
Bosnia and Herzegovina
Botswana
Brazil
British Virgin Islands
Brunei
Burkina Faso
Burundi
Cameroon
Canada
Cape Verde
Cayman Islands
Central African Republic
Chad
Chile
China
Colombia
Congo, Democratic Republic of the
Costa Rica
Cote d'Ivoire
Croatia
Dominica
Dominican Republic
Ecuador
EEA+
Egypt
El Salvador
Equatorial Guinea
Eritrea
Ethiopia
Fiji
French Polynesia
Gabon
Gambia (The)

Georgia
Ghana
Gibraltar
Greenland
Grenada
Guatemala
Guernsey
Guinea-Bissau
Guyana
Haiti
Honduras
Hong Kong (Territory of China)
India
Indonesia
Isle of Man
Israel
Jamaica
Japan
Jersey
Jordan
Kenya
Korea, South
Kuwait
Lebanon
Lesotho
Macau (China)
Macedonia
Madagascar
Malawi
Malaysia
Mali
Mauritius
Mexico
Moldavia
Montenegro
Monaco
Montserrat
Morocco / Western Sahara
Mozambique
Namibia
Nepal
Netherlands Antilles
New Caledonia
New Zealand
Nicaragua
Niger
Nigeria
Oman
Pakistan
Panama
Paraguay
Peru
Philippines
Qatar
Russia
Rwanda
Saint Kitts and Nevis
Saint Lucia
Saint Pierre and Miquelon
Saint Vincent and the Grenadines
Saudi Arabia
Serbia
Seychelles
Singapore
South Africa
Sri Lanka
Suriname
Swaziland
Taiwan
Tanzania
Thailand
Togo
Trinidad and Tobago
Tunisia

Turkey
Turks and Caicos Islands
Uganda
Ukraine
United Arab Emirates
USA+
Uruguay
Venezuela
Vietnam
Zambia
Zimbabwe

In other countries, further certification may be required by law prior to making any such connection. Contact an IBM representative or reseller for any questions. In some countries, the availability of the product may depend on the availability of the relevant national regulatory certificates.

Hardware requirements

IBM Real-time Compression Appliance hardware (2452-780) must be installed in a standard 19-inch rack using the rack mounting hardware provided with the machine.

Software requirements

Minimum software requirement:

IBM Real-time Compression Appliance Software V4.1

Planning information

Customer responsibilities

The IBM Real-time Compression Appliance is a customer install machine but requires that a minimum of two days of Implementation Services be ordered with each system ordered. IBM Real-time Compression Appliance Implementation Services are available from GTS Lab Services. Please contact your IBM sales representative to verify that this requirement is met.

Following good safety practice, IBM recommends that three or more persons install this product.

Physical configuration and installation planning for the 2452 is a customer responsibility. Information about physical configuration and installation requirements, including equipment, site, and power requirements, can be found in the *IBM Real-time Compression Appliances Installation and Planning Guide - GI13-1221* .

You are responsible for downloading or obtaining from IBM , and installing designated Machine Code (microcode, basic input/output system code (called BIOS), utility programs, device drivers, and diagnostics delivered with an IBM machine) and other software updates in a timely manner from an IBM Internet website or from other electronic media, and following the instructions that IBM provides. You may request IBM to install Machine Code changes; however, you may be charged for that service.

Cable orders

No cables required.

Installability

Estimated time to unpack an IBM Real-time Compression Appliance and install it in the rack is two hours.

Supplies

For users: IBM (product name) can be purchased through the dealers around the world.

To request a list of dealers in your area, call (fulfillment company; Lexmark, Priority Fulfillment Services, AP Support Services) at (telephone number - see above paragraph for the appropriate answer for the right fulfillment company and telephone number by country).

For remarketers: Remarketers can purchase IBM printer supplies through Wholesale Distributors and through fulfillment companies around the world. More information can be obtained by sending your request to the IBM Printer Supplies email address at ibmprint@us.ibm.com. Remarketers can also contact IBM's fulfillment companies directly. Fulfillment companies vary depending upon which products are being sold.

IBM production printer supplies as well as legacy printer supplies (announced prior to June of 1994) can be purchased through dealers. Dealers who are interested in purchasing these IBM printer supplies for resale can call Lexmark at 800-292-5885.

Customers who are interested in purchasing IBM network printer supplies or other workgroup printer supplies can order these products through dealers. Remarketers in Asia Pacific, Latin America, Mexico, and South America can call 888-IBM-PRINT (426-7746) for more information on becoming a dealer through Priority Fulfillment Services, IBM's contracted fulfillment company for these geographies. Remarketers who are interested in reselling these supplies in Europe, the Middle East, and Africa can call Asia Pacific Support Services at +011 31-433-502-766 for more information.

Remarketers in the United States who are interested in selling IBM printer supplies can obtain sales and marketing support by calling Global Marketing Services at 800-646-8028.

For users and remarketers (IBM tape supplies): IBM (product name) supplies can be ordered directly through AAS using (enter appropriate machine type/feature code).

IBM (product name) supplies can be also purchased through Priority Fulfillment Services and its distribution channel in North America, Latin America, and Asia Pacific. These (product name) supplies can be purchased through Forex Telegistics BV and its distribution channel in Europe, the Middle East, and Africa.

For information about Priority Fulfillment Services distribution channels, call 1-888-IBM Media in the US and Canada or visit

<http://www.ibm.com/storage/media>

Security, auditability, and control

This product uses the security and auditability features of host hardware, host software, or application software to which it is attached.

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

One year

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

Warranty service

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

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-specific and location-specific information.

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 (mandatory) or a Tier 2 (optional) CRU.

Tier 1 (mandatory) CRU

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

Tier 2 (optional) 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:

- AC power cord
- AC power supply
- Disk drive
- Cables
- Fans
- Wrap plug

- Air Baffle
- Fan Cage
- Cover
- Op Panel

CRU and On-site Service

At IBM's discretion, you will receive specified CRU service, or 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 level is:

- 9 hours per day, Monday through Friday, excluding holidays, next business day response. Calls must be received by 5:00 p.m. local time in order to qualify for next business day response.

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. Refer to the [Warranty service](#) section for additional details.

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

Maintenance service options

CRU and On-site Service

At IBM's discretion you will receive CRU service or 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:

- 9 hours per day, Monday through Friday, excluding holidays, 4 hour average, same business day response
- 24 hours per day, 7 days a week, 4 hour average response
- 24 hours per day, 7 days a week, 2 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 website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM . You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines on-site service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. Service levels are response-time objectives and are not guaranteed.

The specified level of 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-specific and location-specific information. The following service selections are available as maintenance options for your machine type.

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, 4 hour average, same business day
- 24 hours per day, 7 days a week, 4 hour average response
- 24 hours per day, 7 days a week, 2 hour average response

Customer Replaceable Unit (CRU) Service

If your problem can be resolved with a CRU (for example, keyboard, mouse, speaker, memory, or hard disk drive), and depending upon the maintenance service offerings in your geography, IBM will ship the replacement CRU to you for you to install. 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 may be provided as part of the machine's standard maintenance 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.

Warranty service upgrades

Usage plan machine

No

IBM hourly service rate classification

One

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 machine code

IBM Machine Code is licensed for use by a customer on the IBM machine for which it was provided by IBM under the terms and conditions of the IBM License Agreement for Machine Code, to enable the machine to function in accordance with its specifications, and only for the capacity authorized by IBM and acquired by the customer. You can obtain the agreement at

http://www.ibm.com/servers/eserver/support/machine_warranties/machine_code.html

IBM may release changes to the Machine Code. IBM plans to make the Machine Code changes available for download from the IBM System Storage® technical support website

<http://www.ibm.com/storage/support/rtc>

You may also obtain updated code by contacting your IBM representative.

If the machine does not function as warranted and your problem can be resolved through your application of downloadable Machine Code, you are responsible for downloading and installing these designated Machine Code changes as IBM specifies. If you would prefer, you may request IBM to install downloadable Machine Code changes; however, you may be charged for that service.

Educational allowance

A reduced charge is available to qualified education customers. The educational allowance may not be added to any other discount or allowance.

The educational allowance is 15% for the products in this announcement.

Pricing

Product charges

Description	Machine		Feature number				
	type	Model		Mach/Mod/Feat	Plant/ Field install	MES removal	Cabl req.
STN7800 Model 780	2452	780					
Features							
16x1GbE Copper Ports	2452	780	2001				
4x10GbE Optical and 8x1GbE Copper Ports	2452	780	2005				
8x10GbE Optical Ports	2452	780	2015				
3m Green Cat5e Cable	2452	780	3003				
5m LC-LC Optical Cable	2452	780	3705				
16x1GbE Copper Ports	2452/780/2001		Plant	N	N	N	
4x10GbE Optical and 8x1GbE Copper Ports	2452/780/2005		Plant	N	N	N	
8x10GbE Optical Ports	2452/780/2015		Plant	N	N	N	
3m Green Cat5e cable	2452/780/3003		Both	Y	N	Y	
5m LC-LC optical cable	2452/780/3705		Both	Y	N	Y	

(1) Customer setup

Pricing terms

Prices in the following PDF prices link are suggested list prices on day of announcement for the U.S. only. They are provided for your information only. Dealer prices may vary, and prices may also vary by country. IBM list price does not include tax or shipping and is subject to change without notice.

[ENUS-113-012-LIST_PRICES_2013_02_05.PDF](#)

Alternative service

ICA warranty upgrade

Machine type-model-feature	IOR IBM on-site repair (IOR, 24 x 7)
2452-780	

ICA Maintenance

Machine type-model	IOR IBM next day on-site repair (9 x 5)	IOR IBM 4-hr resp. on-site repair (24 x 7)
2452-780		
2452-780-2001		
2452-780-2005		
2452-780-2015		

Annual minimum maintenance charges

Machine type-model	IZA IBM EasyServ repair (EZ)
2452-780	

Machine type-model	IBM On-site Repair (IOR 9 x 5)	IBM On-site Exchange (IOE 9 x 5)
2452-780		

Machine type-model	IBM On-site Repair (IOR 24 x 7)	IBM On-site Exchange (IOE 24 x 7)
2452-780		

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

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Financing solutions from IBM Global Financing can help you stretch your budget and affordably acquire the new product. But beyond the initial acquisition, our end-to-end approach to IT management can also help keep your technologies current, reduce costs, minimize risk, and preserve your ability to make flexible equipment decisions throughout the entire technology lifecycle.

Order now

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

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

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

Reference: YE001

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

Note: Shipments will begin after the planned availability date.

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