Next generation IBM 4610 SureMark single-station printers

Table of contents
1 At a glance
1 Overview
2 Key prerequisites
2 Planned availability date
3 Description
3 Product number
5 Education support
5 Publications
6 Services
6 Technical information
9 Terms and conditions
11 Pricing
11 Announcement countries

At a glance

The new IBM® SureMark™ Printer Model 1NR offers:

- Fast, quiet 80 lines-per-second (lps) receipt printing and auto-cutting make transactions quicker and improve in-store customer satisfaction.
- Packaging is eco-friendly.
- Four font sizes (3 IBM mode fonts, 2 Epsom fonts), 23 resident code pages, and four downloadable DBCS code pages enable international retailers with language support at GA.
- Reseller-friendly design enables reconfiguration of the communication interface and cover color.
- Systems management sensors include paper low, paper motion, print head, and cutter health.
- Tear bar is a failsafe backup for the cutter.
- Simplified paper loading and support for large 102 mm (4 in) diameter rolls improves usability and reduces labor and training expenses.
- User memory (3 MB) can be reallocated by users for multiple purposes.
- This model offers a single, high-performance printing platform worldwide for international retailers.
- Key components have an extended life: Thermal receipt station print head life is 150 Km, receipt cutter life is 1.5 million cuts.
- Remotely-adjustable low-paper sensor helps to minimize transaction delays.

Overview

The new 4610 SureMark printer Model 1NR is a single-station thermal POS receipt printer offering high-speed receipt printing of up to 80 lps, as well as superior reliability, serviceability.
and usability. Available worldwide, this model replaces Models TF6, IF6, TM6, DM6, DF6, TM7, and TF7 and can easily be configured by users to print SBCS (single-byte character set) characters, used in most countries around the world. Model 1NR has a one-year IBM On-site Warranty.

**Note:** (UK only)

In the UK, administrative Model 1ND is also available for customers who prefer its one-year IBM Depot Service Warranty.

Available RS-232, RS-485, and USB (2.0) communication interfaces enable attachment to IBM’s wide range of SurePOS™ Series point-of-sale systems, in addition to PC and competitive systems. Your investment is protected over time because the interface modules are available as field-upgrades. You can change the interface of your printer as your POS terminal requirements and technology evolve.

Tool-less replacement of major assemblies plus enhanced systems management sensors and usage counters make this model very easy to service and manage. Systems management sensors include a paper motion/paper out sensor, cutter-complete sensor, a low-paper sensor, a print head health sensor, plus several more.

Further demonstrating IBM’s commitment to eco-friendliness, this new 4610 printer minimizes landfill waste and carbon emissions by using packaging materials that consist mostly of recycled materials. All packaging materials and most of the materials used to manufacture the printer are recyclable. Additionally, these printers are designed to print thinner paper receipt media, which offers a very green alternative to thicker paper receipt media.

Several ease-of-use features have been added to this new model. Easy drop-and-load paper loading and a cover open button make paper loading fast and easy. Support for large 102 mm (4 in) diameter paper rolls and thinner receipt media minimizes labor expenses by reducing roll changes, and has the added benefit of reducing waste paper roll cores that are not always recycled as they should be. Using 102 mm (4 in) diameter rolls of 1.8 mil (caliper) paper, Model 1NR reduces the number of roll changes by 45% when compared with legacy printers using 3.15 in. diameter rolls of 2.0 mil paper. Similarly, expect a 25% reduction in roll changes when compared with two-sided thermal printer competitors. A compatibility mode is offered for customers who want to retain existing applications while upgrading their printers.

This new model is designed to simplify model ordering, streamline the supply chain, and improve product availability. Both the covers and interface card are features of the printer. Printer covers do not contain any electronics, so they can easily be changed to reflect color preferences. Submit an RPQ to purchase replacement cover sets. The interface card is designed to be assembled during printer setup at the customer’s site. This reduces the number of models and allows easy connection of cables to the interface card before it is attached to the printer.

**Key prerequisites**

Model 1NR attaches to IBM SurePOS 100/300/500/700 Series, AnyPlace Kiosk, and AnyPlace POS Hub Systems with RS-232, RS-485, and USB (plus-power and unpowered USB) interfaces. Most systems offer both power and signal connections, but in some cases an optional special power-only cable may be used to connect the printer’s power connector to a USB plus-power port. Connection to non-IBM systems and PCs generally requires an optional power brick.

**Planned availability date**

June 5, 2009
Description

Ultimate performance

This quiet, high-quality thermal receipt printer sets a new standard for speed, delivering up to 80 lps burst print speed. The print speed improvement of greater than 50% over existing 4610 models will shorten transaction times. A standard 3 MB user flash memory can be allocated by users to store electronic journaling data, logos, fixed messages, and TrueType fonts. Available worldwide, this new model provides extended support for languages through 27 code pages. Twenty three code pages are resident in the printer and four are downloadable DBCS code pages.

Built-in reliability and serviceability

Designed for ease of servicing and management, this new POS printer offers tool-less replacement of many major assemblies. A new systems management sensor system and usage counters are supported by IBM's systems management software, which is free to customers who purchase IBM POS system units. Systems management sensors include a paper motion/paper out sensor, a cutter-complete sensor, a low-paper sensor, and a print head "health" sensor. Additional reliability improvements include a 150 Km thermal print head and a receipt cutter with a 1.5 million cut life, a 50% improvement over current models.

Supremely green

Extending IBM's commitment to eco-friendliness, this new 4610 printer minimizes landfill waste and carbon emissions by using packaging materials that consist mostly of recycled materials. All packaging materials and most of the materials used to manufacture the printer are recyclable. Additionally, these printers are designed to print thinner paper receipt media, which offers a very green alternative to thicker paper receipt media.

Shrinks operating costs

Several ease-of-use features added to this new 4610 model will reduce retailers' total cost of ownership:

• 102 mm (4 in) diameter receipt rolls require changing much less often, reducing labor expenses for paper for roll changes by as much as 45%.
• Easy "drop and load" receipt roll loading reduces training expenses.
• Paper-low and paper motion sensors status is reported by the printer to IBM systems management software, which will alert store personnel, reducing customer wait time.

Transaction times and associated expenses can be reduced by the fast processing of receipts.

Multiple printer models supporting many market segments

International and global retailers can use SureMark printers as a single worldwide printer platform to improve the efficiency of service and support. These printers are available in a wide range of models, so multinational retailers can select the right model for each geography in which they do business.

Models 1NR and 1ND (UK only) are well-suited for customers who require fast, reliable receipt printing. These Models also support the DBCS printing requirements of Asia Pacific countries.

Product number

SureMark Single Station Printer
IOR warranty service

SureMark Single Station Printer, (UK only)
**Depot warranty service**

**Note:** The following features are orderable on 4610 Models 1NR and 1ND:

<table>
<thead>
<tr>
<th>Description</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Specifies</td>
<td></td>
</tr>
<tr>
<td>Cover color pearl white specify</td>
<td>2918</td>
</tr>
<tr>
<td>Cover color iron gray specify</td>
<td>2921</td>
</tr>
<tr>
<td>Miscellaneous Feature</td>
<td></td>
</tr>
<tr>
<td>Small Starter Paper Roll</td>
<td>0720</td>
</tr>
<tr>
<td>Wall mounting bracket for SST Model 1NR</td>
<td>3601</td>
</tr>
<tr>
<td>Interfaces - Chargeable</td>
<td></td>
</tr>
<tr>
<td>Inter adapter RS-485 Single station</td>
<td>6269</td>
</tr>
<tr>
<td>Inter adapter RS-232 Single station</td>
<td>6270</td>
</tr>
<tr>
<td>Inter adapter USB Single station</td>
<td>6259</td>
</tr>
<tr>
<td>No interface adapter</td>
<td>9990</td>
</tr>
<tr>
<td>Cables</td>
<td></td>
</tr>
<tr>
<td>RS-232 Cable - .75 m - 9pin to RJ-45</td>
<td>2405</td>
</tr>
<tr>
<td>RS-232 Cable - 2 m - 9pin to RJ-45</td>
<td>2406</td>
</tr>
<tr>
<td>USB Power-only Cable 24V 2.0 M</td>
<td>3912</td>
</tr>
<tr>
<td>USB Power-only Cable 24V 0.7 M</td>
<td>3913</td>
</tr>
<tr>
<td>RS-485 Cable - 0.48 M</td>
<td>4920</td>
</tr>
<tr>
<td>RS-485 Cable 1.5 M</td>
<td>6095</td>
</tr>
<tr>
<td>RS-485 Cable - 3.8 M</td>
<td>4922</td>
</tr>
<tr>
<td>RS-232 Cable - 2 M</td>
<td>4931</td>
</tr>
<tr>
<td>RS-232 Cable - .4 M</td>
<td>4932</td>
</tr>
<tr>
<td>RS-232 Cable - .75 M</td>
<td>4933</td>
</tr>
<tr>
<td>RS-232 Cable - 1.52 M</td>
<td>6091</td>
</tr>
<tr>
<td>Std USB Cable 5.0 M</td>
<td>7370</td>
</tr>
<tr>
<td>USB Signal +Power Cable 24V 1.8 M</td>
<td>4919</td>
</tr>
<tr>
<td>USB Signal +Power Cable 24V 3.8 M</td>
<td>4925</td>
</tr>
<tr>
<td>USB Signal +Power Cable 24V 0.5 M</td>
<td>4926</td>
</tr>
<tr>
<td>Printer Cash Drawer Cable 3.8 M</td>
<td>3387</td>
</tr>
<tr>
<td>Printer Cash Drawer Cable 0.5 M</td>
<td>6097</td>
</tr>
<tr>
<td>Customer-provided cable</td>
<td>9600</td>
</tr>
<tr>
<td>Power Supply</td>
<td>4930</td>
</tr>
<tr>
<td>VFD Extensions</td>
<td></td>
</tr>
<tr>
<td>VFD Display extension Litho</td>
<td>5348</td>
</tr>
<tr>
<td>VFD Display extension Iron</td>
<td>5651</td>
</tr>
<tr>
<td>VFD Display extension Storm</td>
<td>5650</td>
</tr>
<tr>
<td>Filler Panels for machine type 4800</td>
<td></td>
</tr>
<tr>
<td>Filler panel for SST on wide 4800 storm</td>
<td>7650</td>
</tr>
<tr>
<td>Filler panel for SST on narrow 4800 storm</td>
<td>7651</td>
</tr>
<tr>
<td>Filler panel for SST on wide 4800 Iron</td>
<td>7653</td>
</tr>
<tr>
<td>Filler panel for SST on narrow 4800 Iron</td>
<td>7654</td>
</tr>
<tr>
<td>Non-Locking, Euro, France</td>
<td>9870</td>
</tr>
<tr>
<td>Non-Locking, Denmark</td>
<td>9865</td>
</tr>
<tr>
<td>Non-Locking, South Africa</td>
<td>9860</td>
</tr>
<tr>
<td>Non-Locking, UK/Ireland</td>
<td>9855</td>
</tr>
<tr>
<td>Non-Locking, Switzerland</td>
<td>9850</td>
</tr>
<tr>
<td>Non-Locking, Italy</td>
<td>9845</td>
</tr>
<tr>
<td>Non-Locking, Israel</td>
<td>9840</td>
</tr>
<tr>
<td><strong>Note:</strong> The following features are orderable on 4611-010:</td>
<td></td>
</tr>
<tr>
<td>Inter adapter USB- field upgrade</td>
<td>6259</td>
</tr>
<tr>
<td>Inter adapter RS-485 Single station</td>
<td>6269</td>
</tr>
<tr>
<td>Inter adapter RS-232 Single station</td>
<td>6270</td>
</tr>
</tbody>
</table>
Wall mounting bracket for SST Model 1NR          3601
Filler panel for SST on wide 4800 storm          7650
Filler panel for SST on narrow 4800 storm         7651

Education support

Multimedia education is available for IBM Business Partners, IBM customers, and IBM employees who sell, support, or service this product.

Sales courses (IBM and Business Partners):

<table>
<thead>
<tr>
<th>Course title</th>
<th>Language</th>
<th>Course number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selling the IBM SureMark Printer Model 1NR</td>
<td>English</td>
<td>RE4610S1</td>
</tr>
</tbody>
</table>

Technical courses (IBM, Business Partners, customers):

<table>
<thead>
<tr>
<th>Course title</th>
<th>Language</th>
<th>Course number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supporting the IBM SureMark Printer Model 1NR</td>
<td>English</td>
<td>RE4610T3</td>
</tr>
<tr>
<td>IBM 4610 SureMark Printers Model 1NR Hardware Service Training</td>
<td>English</td>
<td>SE461003</td>
</tr>
</tbody>
</table>

To enroll in these and other IBM Retail Store Solutions Education courses, visit the following Web sites:

IBM employees
http://lt.be.ibm.com/smartzone

IBM Business Partners
http://www.ibm.com/services/weblectures/dlv/smartzone

IBM customers
http://www.ibm.com/services/weblectures/retailed

Note: IBM employees in Division 48 should enroll for the service course using Training on Demand.

For questions regarding IBM Retail Store Solutions Education offerings, send an e-mail to grse@us.ibm.com

Publications

No publications are shipped with the announced products.

Drivers for the appropriate POS subsystem can be downloaded from the Retail Store Systems Web site
http://www.ibm.com/solutions/retail

<table>
<thead>
<tr>
<th>Title</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM SureMark 4610 Printers User's Guide Models 1NR, 1NA, 1ND</td>
<td>G362–0564–00</td>
</tr>
<tr>
<td>IBM SureMark 4610 Printers Hardware Service</td>
<td></td>
</tr>
</tbody>
</table>
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


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

Technical information

Specified operating environment

Physical specifications

Model 1NR

At base of product:

width: 145.0 mm (5.7 in)
Depth: 177 mm (7.0 in)
Height cover closed: 159 mm (6.3 in)
Height cover opened: 260 mm (10.2 in)

weight:

Model 1NR: 1.4 Kg (3.5 lbs)

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

EMC conformance


Software requirements

Models 1NR and 1ND (UK only) are supported in DOS, Linux®, Windows®, and 4690 OS environments at GA in compatibility mode, which is the default printer setting. Printers can be electronically reset to native mode or Epson emulation mode remotely and en masse via printer commands. Functions that are available in compatibility mode include the following:
• All current functions offered by machine type 4610 Model TF6, TM6, and TF7 with the exception of Model 4 emulation functions which are not supported by Models 1NR and 1ND (UK only).
• 80 lps printing
• RMA support, limited to TF6, TM6, and TF7 supported functions
• 3 MB user memory
• Extended life cutter and print head
• Serviceability features including tool-less replacement of many parts
• In 4690 OS, as specified below, automatic firmware updates are available

In addition to functions supported in compatibility mode, these functions are supported in native mode:

• RMA support including new functions like paper-low and paper motion sensors
• Distinction between paper out and cover open sensing
• UPOS support for automatic firmware updates

OS and application support (compatibility-tested)

```
UPOS 1.9.6                      Windows XP SP2, WEPOS Update 1.1,
                                 Windows 2000 and NLPOS 9 SSP3.

4690                            IBM 4690 OS V5R1 - 09F0
                                 IBM 4690 OS V5R2 - 0900
                                 IBM 4690 OS V6R1 - 0980
                                 These levels support auto flash updates

Microsoft® Windows Windows 2000, XP, WEPOS, 2003 Server
                                 Native Windows V2.5
                                 ACE, Chain Drug, GSA, SA
```

OS and application support (native)

```
UPOS 1.12                      Windows Vista SP1, XP SP3, WEPOS Update 1.1, POSReady,
                                 NLPOS 9 SSP3+/IRES 2.1.5 CSD

4690                            V6R1 (available later in 2009)
                                 These levels support auto flash updates

Microsoft Windows Windows XP, WEPOS, 2003 Server
                                 Native Windows V2.5
                                 ACE, Chain Drug, GSA, SA
                                 None
```

OS and application support (Epson emulation)

```
ESC POS through RS-232 direct communication interface
(no drivers are required)

Summary:

<table>
<thead>
<tr>
<th></th>
<th>DOS 2000</th>
<th>Windows</th>
<th>NLPOS</th>
<th>4690OS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS485</td>
<td>Not supported</td>
<td>UPOS</td>
<td>JavaPOS</td>
<td>Yes</td>
</tr>
<tr>
<td>USB 2.0</td>
<td>Not supported</td>
<td>UPOS</td>
<td>JavaPOS</td>
<td>Yes (USB 1.1)</td>
</tr>
<tr>
<td>RS232</td>
<td>Native, Epson Emulation</td>
<td>UPOS(Native)</td>
<td>Native</td>
<td>Not Supported</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NWD(Native)</td>
<td>JavaPOS(Native), Epson Emulation</td>
<td></td>
</tr>
</tbody>
</table>

Note that Model 1NR supports USB 2.0 full-speed communications (12 Mbps) except for 4690 OS installations, where full speed is achieved with USB 1.1 support.
Compatibility
The new SureMark printer Model 1NR uses the same filler panels, interface cables, and power bricks as existing 4610 printers. Paper rolls that meet the specifications for existing 4610 printer may be used in this new model, though larger diameter rolls, 102 mm (4 in), may be used in the new model. Modular interface adapters (RS-232, RS-485, and USB) are new and unique to the new model. Existing interface adapters cannot be reused on the new model. A compatibility mode is provided in Model 1NR to enable use of existing drivers and applications with only minor modifications.

Limitations
The receipt printing speed (80 lps) of Model 1NR is the maximum burst speed of the printer and might not always be achieved when using an application and driver to operate the printer.

When operating the printer in compatibility mode, not all functions of Model 1NR are supported. An example would be support for the paper-low sensor, which is not provided in compatibility mode, but is supported in native mode. For a more complete listing, refer to the Software requirements section.

The power brick from existing installations of legacy models may be reused with Model 1NR, but performance might be limited and very dense print patterns might print lighter than expected. Using the new power brick that is shipping today will alleviate these potential issues. Refer to the Retail Knowledgebase - Keyword: "GSG"


Automatic flash updates are not supported in UPOS installations when operating in compatibility mode.

The printer cash drawer port is not supported in 4690 OS installations.

Planning information

Customer responsibilities
The customer shall remove and replenish consumable supplies. Consumable supplies are limited to receipt paper rolls.

The customer is responsible for clearing paper jams (should they occur) and for performing diagnostics.

Cable orders
RS-232, RS-485, and USB cables are available in various lengths for ordering via feature number. When attaching via RS-232, special power cables that provide printer power via connection to a powered USB port are available via feature number.

Power cords for the optional RS-232 power supply are shipped according to the country code of the order.

Supplies
Thermal paper
Receipt media dimensions: The receipt media used in the thermal receipt station must meet the following requirements:

<table>
<thead>
<tr>
<th></th>
<th>58 mm</th>
<th>80 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>58 mm +/- 0.5 mm</td>
<td>79.5 +/- 0.5 mm (3.13 +/- 0.02 in)</td>
</tr>
<tr>
<td>Thickness</td>
<td>1.6 to 3.7 mil</td>
<td>1.6 to 3.7 mil</td>
</tr>
<tr>
<td>Weight</td>
<td>23 - 55 g/m2</td>
<td>23 - 55 g/m2</td>
</tr>
<tr>
<td>Outside Diameter (internal supply)</td>
<td>Up to 102 mm</td>
<td>Up to 102 mm (4 in)</td>
</tr>
<tr>
<td>Outside Diameter</td>
<td>305 mm (12 in)</td>
<td>305 mm (12 in)</td>
</tr>
</tbody>
</table>
The above dimensional specs represent the theoretical limits of the printer and are provided for reference only, but actual media supported can be found on the “tested papers” Web site at http://www.raleigh.ibm.com/rds/html/4610d.html

The media must be wound with the printing side facing out, with the outer edge glued to prevent unraveling. The paper should not be attached to the core in any manner.

Note: POS grade thermal receipt paper is recyclable.

Printer reliability and performance are directly related to quality of supplies. Specifications for IBM SureMark printers are established using supplies that meet IBM standards. Thermal paper with post-processing (including, but not limited to, watermarks, coupons, or advertisements printed on the front or back) is not covered by IBM specifications. Some inks and printing processes will work while others may not. Printer problems caused by supplies that do not meet these specifications may result in a billable service call, regardless of the existence of a service contract.

Security, auditability, and control

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

Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings, for the efficient installation, implementation, and/or integration of this product.

Terms and conditions

Volume orders: Contact your IBM representative.

Warranty period

One year

Warranty service

4610 Model 1NR

IBM On-site Repair - 24 hours per day, 7 days a week, next-day response.

For additional IBM service cover options during warranty, contact your IBM Business Partner or local IBM representative.

Model 1ND (UK only)

IBM Depot Warranty Service (one year)

Depot Warranty offers an alternative, lower-cost approach to the delivery of warranty service from the more traditional IBM On-site Repair (IOR) warranty available with other models of SureMark printers. Customers should choose Depot Warranty models when the turnaround time on machine repair is considered less business critical.

Depot Warranty Service is a courier-based repair service. If warranty service is required, the SureMark models detailed in this announcement will be picked up at the customer's location and delivered to an IBM designated repair location. The repair location will repair the unit and return it to the customer. Charges for the courier service both to and from the repair location will be paid by IBM.
This section describes the responsibilities of IBM, the customer, and the service level that operates for the machines in this announcement.

**IBM responsibilities**

IBM will attempt to diagnose and resolve your problem over the telephone or electronically by access to an IBM Internet Web site. If warranty service is required, IBM will provide you with a shipping container for you to return your machine to a designated repair location. Following its repair or exchange, IBM will arrange the return delivery of the machine to your location. IBM is not responsible for its installation and verification of operation.

**Customer responsibilities**

When you contact IBM for service, you must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines warranty service is required, you will disconnect the failing machine for collection arranged by IBM. IBM will provide a shipping container for packing the defective unit for shipment to the repair location. This container will be delivered by IBM's courier who will be responsible for packing the unit and delivering it to the repair location. Following its repair or exchange, IBM will arrange the return delivery of the machine to your location. You are responsible for its installation and verification of operation.

**Service levels**

Service levels specified below are response-time objectives only and are not guarantees. The specified service level may not be available in all worldwide locations. Charges may apply outside IBM's normal service area. Response times are based on local standard business days and working hours. Unless otherwise specified, all responses are measured from the time the customer contacts IBM for problem determination until IBM has resolved the problem remotely or scheduled service to be performed.

Depot service: Five days from time of receipt at the repair location to courier pick up from the repair location for return shipment to the customers location.

**Supplemental information**

If warranty service is required, the customer should call IBM at the designated Hardware Support number for the country. Contact numbers can be found by selecting the appropriate country from this Web site

http://www.ibm.com/planetwide/

For full details of IBM's Statement of Limited Warranty, please follow the link below


Models with Depot Warranty may not be eligible for International Warranty Service (IWS). For additional IBM service cover options during warranty, contact your IBM Business Partner or local IBM representative.

**Usage plan machine**

No

**IBM hourly service rate classification**

Two

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.

**Maintenance service offerings**

Model 1NR
IBM On-Site Repair (IOR) (24 hours a day, 7 days a week, next day response)

Model 1ND

IBM Depot Warranty Service

Field-installable features
Yes

Model conversions
No

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

Graduated program license charges apply
No

Licensed internal code and licensed machine code
This product does not contain Licensed Internal Code or Licensed Machine Code.

Pricing

For all local charges, contact your IBM representative.

IBM Global Financing

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

http://www.ibm.com/financing

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

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 life cycle.

For more financing information, please visit

http://www.ibm.com/financing

Announcement countries

All European, Middle Eastern, and African countries.
Trademarks
SureMark and SurePOS are trademarks of IBM Corporation in the United States, other
countries, or both.

IBM is a registered trademark of IBM Corporation in the United States, other countries, or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Windows and Microsoft are registered trademarks of Microsoft Corporation in the United States,
other countries, or both.

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

Terms of use
IBM products and services which are announced and available in your country can be ordered
under the applicable standard agreements, terms, conditions, and prices in effect at the time.
IBM reserves the right to modify or withdraw this announcement at any time without notice.
This announcement is provided for your information only. Reference to other products in this
announcement does not necessarily imply those products are announced, or intend to be
announced, in your country. Additional terms of use are located at


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

http://www.ibm.com/planetwide/