



The IBM SurePOS 4694 Point-of-Sale System



*The fast, intelligent solution
for a dynamic retail world*



IBM 4694



Highlights

Innovative technology plus retail-hardened construction

The IBM 4694 delivers fast processors, abundant memory and speedy network connections to help retailers take advantage of many of the latest point-of-sale (POS) applications. The rugged packaging can withstand punishing retail conditions.

Impressive investment protection

Multiport connectivity, broad operating system support, fiscal capabilities and the ability to maintain a consistent POS architecture all help retailers maximize current investments in POS hardware and software.

Flexible options for virtually any store

With a wide range of peripherals and expansion options, the IBM 4694 allows retailers to configure a high-performance solution that meets specific operational needs.

Cost-effective systems management

The optional power management with battery backup assists in maintaining terminal loads, which can reduce downtime and can lower operating costs. The IBM 4694 also includes support for Wake on LAN®, and the Wired for Management (WfM) initiative, allowing for centralized systems management.

Proven POS solutions from a retail technology leader

The smart, strategic choice

Customer relationship management, electronic marketing, and Web-based sales and service are no longer futuristic concepts. They are the strategies retailers depend on to build and maintain loyalty, protect and grow market share, and take advantage of e-business on an enterprise-wide scale.

To support these efforts at the store level, retailers around the world consistently choose the IBM SurePOS™ 4694 Point-of-Sale System. This proven solution provides better performance and more flexibility than previous models. Each model boasts powerful processing speed, abundant memory and versatile connectivity. Each model features rugged construction that can hold up under harsh, real-world retail conditions. Each model offers a comprehensive menu of functions and options, so retailers can configure the right solution for virtually any store.

Most important, IBM designed, developed and tested the IBM 4694 specifically for retail – and IBM will continue to innovate. So, retailers can remain confident that IBM 4694 solutions will continue to deliver the technologies retailers need to stay profitable.

Engineered for high performance

Thousands of retailers worldwide have selected the IBM 4694 to run their businesses – because it delivers the capabilities retailers need to compete and the dependability retailers expect from a retail technology leader.

Processing speeds run as high as 566 MHz, and standard system memory reaches 64 MB. Video memory ranges from 1 to 8 MB. Retailers can also choose an IBM 4694 solution with up to 15 GB of hard file capacity, 128 KB cache and an Ethernet 10/100 network connection – depending on the store's needs.

The physical package is retail ready. The design is laboratory-tested to protect electronics against dust, dirt, humidity, food hazards and spills. Cash drawers are stress-tested to withstand the impact of coin rolls and repeated slamming. And in the event of unexpected power loss, nonvolatile memory can safeguard critical POS data, such as system totals – so retailers don't lose sales data.

Investment protection for today and tomorrow

Retailers protect their current investment in POS technology several ways with the IBM 4694. It easily accommodates current peripheral devices with RS-232 and RS-485 ports, so retailers can place new machines in the store or update older systems without replacing trusted scanners, printers or scales. The IBM 4694 also reinforces our long-standing strategy of easy migration to Universal Serial Bus (USB) connectivity. Offering even more USB ports than before, the IBM 4694 allows retailers to integrate new equipment as it becomes available, as well as simplify peripheral management with plug-and-play and hot plug/unplug capabilities.

As an open platform, the IBM 4694 system runs applications for Microsoft® Windows®, IBM 4690 OS and DOS – which means retailers can keep the proven software retailers use today, or leverage the more recent offerings. The ISA/PCI architecture supports adapters from a long list of OEMs. VGA video ports are standard on all models. Models 206, 246, 2S6 and 2L6 also include a Digital Visual Interface (DVI-D) port to support digital monitors, such as the IBM SurePoint™ Solution. This enables retailers to keep using current CRT monitors, then add digital devices when the time is right.

The IBM 4694 is also an ideal solution for the international retail enterprise. Not only is it a multiformat solution appropriate for supermarkets, hypermarkets, department stores and specialty stores, it can support country-specific power requirements and fiscal regulations. This helps retailers use a single platform worldwide to increase simplicity and to help lower support costs.



Build the best solution for the business

IBM understands that every retail environment is different. That's why the IBM 4694 offers so much flexibility. With a wide range of keyboards, displays, cash drawers, printers, and both narrow and wide footprints to choose from, retailers can easily tailor a solution for virtually any store. Expansion options are numerous too. Optional hard drives and memory upgrades increase power and performance. LAN connections include 10/100 Ethernet, as well as Token Ring and Store Loop card options.

Convenient, centralized systems management

The IBM 4694 illustrates the IBM commitment to industry-standard system management tools that helps to lower total cost of ownership and significantly improve the retailers' ability to control their retail operation.

The optional power management with battery backup eliminates the need to re-IPL (Initial Program Load) the system if power is restored within one hour of an outage. The operating system and applications stay loaded, and the system returns to its original state. Power management also powers down systems to a low-energy standby mode after a preset period of inactivity, which cuts operating costs. The IBM 4694 supports both Advanced Power Management (APM) and Advanced Configuration and Power Interface (ACPI) for power management, so retailers can use systems in a variety of environments. Wake on LAN, available with power management, adds the ability to perform remote software updates when systems are unattended or in standby mode.

The IBM 4694 complies with the Desktop Management Interface (DMI) industry standard. This allows retailers to centrally collect system information, such as CPU, BIOS level and other critical data, using popular systems management tools, such as Tivoli™. With the power management feature, the IBM 4694 complies with the WfM standard.



IBM SurePOS 4694 Point-of-Sale System at a glance

Model Numbers	104/144/154 ¹	205/SNT	245/LNT	206/2S6	246/2L6
Footprint	Narrow (104) Wide (144/154)	Narrow	Wide	Narrow	Wide
Processor	100 MHz AMD®5x86	300 MHz AMD-K6®-2	300 MHz AMD-K6-2	566 MHz Intel®Celeron™	566 MHz Intel Celeron
L2 Cache	0	512KB	512KB	128KB	128KB
Memory					
Standard Memory	4MB	32MB (205) 64MB (SNT)	32MB (245) 64MB (LNT)	32MB (206) 64MB (2S6)	32MB (246) 64MB (2L6)
Memory Capacity	4 - 128MB (FPM)	32 - 256MB (SDRAM)	32 - 256MB (SDRAM)	32 - 256 (SDRAM)	32 - 256 (SDRAM)
NVRAM	32KB	32KB	32KB	32KB	32KB
Video Memory	1MB	2MB	2MB	8MB	8MB
Hard Drive	4.2GB • optional	4.2GB • 205 optional • SNT standard	4.2GB • 245 optional • LNT standard	15GB or higher • 206 optional • 2S6 standard	15GB or higher • 246 optional • 2L6 standard
Floppy Drive	1.44MB	1.44MB	1.44MB	1.44MB	1.44MB
LAN	Ethernet 10	Ethernet 10/100	Ethernet 10/100	Ethernet 10/100	Ethernet 10/100
Adapter Card Options					
Store Loop	Yes	Yes	Yes	Yes	Yes
Token Ring	Yes	Yes	Yes	Yes	Yes
CD-ROM (optional)	No	24X	24X	24X	24X
Slots	2 total	2 total	2 total	2 total	2 total
PCI	0	0	0	1	1
ISA/PCI	0	1	1	1	1
ISA	2	1	1	0	0
Bays (3.5")	2	2	3	2/3	2/3
Ports					
Video	VGA	VGA	VGA	VGA, DVI-D	VGA, DVI-D
RS-485	4	4	6	4	6
RS-232	2	2	2	2	2
USB	0	2	2	4	4
Cash Drawer	2	2	2	2	2
RJ45 Ethernet	1	1	1	1	1
P/S2 Keyboard/Mouse	1	1	1	1	1
Parallel	0 (104) 1 (144/154)	0	1	0	1

¹ Model 154 available in Japan only.

IBM SurePOS 4694 Point-of-Sale System at a glance (continued)

Model Numbers	104/144/154	205/SNT	245/LNT	206/2S6	246/2L6
Front Access	No (104) Yes (144/154)	No	Yes	No	Yes
Power and System Management					
System Management	None	WfM 1.1	WfM 1.1	WfM 1.1	WfM 1.1
Power Management (optional)	APM 1.2	APM 1.2	APM 1.2	APM 1.2/ACPI	APM 1.2/ACPI
Wake on LAN (optional)	No	Yes	Yes	Yes	Yes
Battery (optional)	Yes	Yes (optional)	Yes (optional)	Yes (optional)	Yes (optional)
Weight	<ul style="list-style-type: none">• 16 lbs./7.3 kg (104 w/o battery)• 23 lbs./10.4 kg (144/154 w/o battery)• 21 lbs./9.5 kg (104 w/battery)• 28 lbs./12.7 kg (144/154 w/battery)	<ul style="list-style-type: none">• 16 lbs./7.3 kg• 21 lbs./9.5 kg (w/battery)	<ul style="list-style-type: none">• 23 lbs./10.4 kg• 28 lbs./12.7 kg (w/battery)	<ul style="list-style-type: none">• 16 lbs./7.3 kg• 21 lbs./9.5 kg (w/battery)	<ul style="list-style-type: none">• 23 lbs./10.4 kg• 28 lbs./12.7 kg (w/battery)
Power Requirements	<ul style="list-style-type: none">• 100 - 127 volts• 200 - 240 volts• 50/60 Hz• 160 W max./ 50 W typical	<ul style="list-style-type: none">• 100 - 127 volts• 200 - 240 volts• 50/60 Hz• 197 W max./ 65 W typical	<ul style="list-style-type: none">• 100 - 127 volts• 200 - 240 volts• 50/60 Hz• 197 W max./ 65 W typical	<ul style="list-style-type: none">• 100 - 127 volts• 200 - 240 volts• 50/60 Hz• 197 W max./ 65 W typical	<ul style="list-style-type: none">• 100 - 127 volts• 200 - 240 volts• 50/60 Hz• 197 W max./ 65 W typical
Dimensions (W/D/H)					
mm	475x312x86 (104) 475x440x89 (144)	475x312x86	475x440x89	475x312x86	475x440x89
inches	18.7x12.3x3.4 (104) 18.7x17.3x3.5 (144)	18.7x12.3x3.4	18.7x17.3x3.5	18.7x12.3x3.4	18.7x17.3x3.5
Keyboards	<ul style="list-style-type: none">• Retail Alphanumeric POS Keyboard with MSR: "QWERTY" style alphanumeric keys with 12 function keys, plus 33 reconfigurable, relegendable POS function keys; 7 indicator lights; numeric keypad; 3-track MSR; adjustable tone; control key; and 2-position keylock.• Retail POS Keyboard: 49 keys, including 38 customizable POS function keys; 11-key numeric keypad in telephone or calculator format; control key used with a POS function key provides an additional 38 POS function keys; 4 indicator lights; 2-position keylock; and adjustable keyboard tone.• Retail POS Keyboard with MSR: All the above functions plus integrated, bidirectional 3-track MSR.• Retail POS Keyboard with MSR and Display: All the above functions plus 40-character LCD operator display.• Retail Modifiable Layout Keyboard with MSR: Matrix of 120 relegendable and reconfigurable POS keys; 12 interchangeable numeric pad keys may be placed at any one of three locations; one control key; 4 indicator lights; 3-track MSR; adjustable tone; and 2-position keylock.				

IBM SurePOS 4694 Point-of-Sale System at a glance (continued)

Displays

- **IBM SurePoint Solution:** 12.1-inch, color, active matrix LCD available in display-only or touchscreen display models; options include a 32-key, programmable keypad with integrated 3-track or JUCC MSR, a 3-track or JUCC MSR, a pointing device, a speaker/microphone kit and a keylock; attaches directly to the VGA or DVI port, no video adapter card is required.
- **Monochrome CRT Display:** 8.5-inch viewable screen; SVGA resolution (tilt and rotate).
- **Color CRT Display:** 8.7-inch viewable screen; SVGA resolution (tilt and rotate).
- **40-Character Vacuum Fluorescent Display II (one-sided):** Displays up to 40 alphabetic or numeric characters or special symbols in two rows of 20 characters each; characters are formed with a 5-wide x 7-high dot matrix (approximately 10.5 mm high) and are green in color; display mounts on a post where it can be tilted and rotated; the display can be easily read from a distance of 10 feet or more, and from an angle of 45 degrees or more.
- **40-Character Vacuum Fluorescent Display II (two-sided):** Two 40-character displays back-to-back in one cover can show different messages; this display does not tilt.
- **40-Character Vacuum Fluorescent Display I (one-sided):** Displays alphabetic and numeric characters; characters form in 11.8 mm-high 5 x 12 matrix; viewing distance is 7.5 feet.
- **40-Character Liquid Crystal Display:** Features a 2 x 20 liquid crystal screen that displays up to 50 characters of alphabetic or numeric information, or special symbols, in two rows of 20 characters each. Characters form in 8 mm-high 5 x 7 matrix; viewing distance is 5 feet; two displays on one pole can show different messages.
- **Character/Graphics Display:** This Vacuum Fluorescent Display (VFD) operates in both text and graphics modes. The text mode displays numeric and alphabetic characters in two rows of 20 characters each in an 8 x 16 dot matrix. The graphics mode displays images or characters on a 160 x 36 dot matrix screen. Each of the dots is individually addressable.

Printers

- **IBM SureMark™ Printers:** Two-station printers feature thermal receipt and impact document insert stations. Receipts print at 52 lines per second (lps). All models offer quiet, reliable printing and are exceptionally easy to use. Both SBCS and DBCS applications are supported. For check reading and printing, one model can read the MICR line on checks, and it can print on both the face and the back of the check with a single insertion.
- **IBM Model 4 Printers:** Three-station printers offer impact receipt, document insert and journal stations. Receipts print at 4.3 lps. Model 4R provides check reading and printing, while Model 4A supports DBCS printing.
- **IBM 4689-TD5 SurePOS Printer:** Two station DBCS printer offers thermal receipt and journal stations, receipt prints at up to 26 lps (available in Japan and other select Asia Pacific countries only).
- **IBM Fiscal Printers:** IBM offers a range of three-station fiscal printers with impact receipt, document insert and journal stations. These printers (Models 3xx) satisfy the POS printing requirements of countries with fiscal laws.

Cash Drawers

- **Full-size Cash Drawer:** Media slot; lock; removable tills with fixed or adjustable compartments.
- **Compact Cash Drawer:** Media slot; lock; vertical or horizontal bill storage in removable till inserts with adjustable compartments.
- **Flip Top Cash Drawer:** Top cover opens for removable till access; lock.

Software

The IBM SurePOS 4694 Point-of-Sale System supports the following system software:

- 4690 OS
 - Microsoft Windows 98 (2nd Edition)
 - Microsoft Windows NT® 4.0 (Service Pack 5 or later)
 - Microsoft Windows 2000 (Professional Edition)
 - IBM PC DOS 2000
 - DBCS versions of the above operating systems
- Software standards supported:
- JavaPOST™ Retail Standard
 - OPOS Retail Standard

Limited Warranty*

1 year, on-site service

* For a copy of the terms and conditions of IBM's statement of limited warranty, please contact your IBM representative or reseller.



Discover more today

The IBM SurePOS 4694 Point-of-Sale System is just one member of the IBM SurePOS Family – a suite of scalable, reliable solutions developed by IBM to compete. To find out more about the IBM 4694 or other offerings from IBM Retail Store Solutions, contact your local IBM representative or find us on the Web at:

www.ibm.com/solutions/retail

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