IBM

Powerful point-of-sale solutions designed for retail

IBM SurePOS 700 Series

Innovative choices for a wide variety of retailers

The IBM SurePOS™ 700 Series includes a range of models and peripheral options, so retailers can choose the right combination of speed, performance and functionality for their retail environment.

Advanced technology in rugged, reliable packaging

With retail-hardened design, powered USB connectivity, systems management and multimedia capabilities, the IBM SurePOS 700 Series delivers innovative point-of-sale (POS) technology retailers need to thrive in a dynamic, competitive market.

Investment protection

New solutions must integrate tightly with retailers' current systems – and handle increasing workloads as retailers expand and improve business operations. IBM is committed to meeting these needs. The IBM SurePOS 700 Series provides an open platform that is designed to support the latest in connectivity and systems management for today and tomorrow.

High-powered, flexible solutions for a new age of retail

From point of sale to point of service

To provide today's consumers with a satisfying shopping experience that builds loyalty, retailers must be able to do more at the point of sale than complete transactions quickly. Electronic marketing and customer relationship management demand that retailers get the right products on the shelves – at the right time, for the right price. Retailers may also want to run multimedia and Web-enabled applications for employee training or multichannel customer service.

The IBM SurePOS 700 Series was developed to meet these evolving needs – and help you turn the point of sale into a comprehensive point of service. These versatile POS solutions offer a range of models and peripheral options, so you can select the configuration that best suits your business.

The IBM SurePOS 700 Series includes the following platforms, each designed for a specific retail environment:

- The IBM SurePOS 750 is ideal for retailers who need thick-client solutions based on Microsoft® Windows® 2000 or Windows 98 environments. These systems provide the processing power and flexibility for retailers to use the systems for full-function POS or combined POS/backoffice applications.

- The IBM SurePOS 730 is ideal for retailers who need thin-client systems based on IBM 4690 Operating System, or entry-level Microsoft Windows 2000 or Windows 98 environments.

- The IBM SureBase™ is a platform designed to connect USB peripherals to a separate PC, offering the level of dependability that traditional point-of-sale PC solutions cannot. This retail-hardened USB peripheral hub offers an integrated point-of-sale look and feel, in addition to featuring NVRAM and an integrated UPS.

No matter which member of the IBM SurePOS 700 Series you choose, you can count on a superior combination of speed, performance and flexibility – enhanced with the latest technology and packaged in a retail-hardened design.

A major advance in USB connectivity

Universal Serial Bus (USB) technology is the latest industry standard for improved connectivity. It delivers power and signal in a single cable to peripheral devices, which allows for simpler installation, configuration and service. It also provides faster data transmission for increased performance, as well as the greatest range of peripheral choices. Powered USB delivers the additional power and positive-latching, keyed connectors necessary to operate and manage POS peripherals. Some advantages of USB include:

- Plug-and-play performance. Attach or detach peripheral devices dynamically without reconfiguring the system.

- Hot plugging. Connect and disconnect peripheral devices from the system unit without powering down the system.

- More peripheral choices. Choose from a rapidly expanding catalog of USB-compatible peripheral devices.

- Broad operating systems support. Microsoft Windows 2000 (Professional Edition), Windows 98 (Second Edition) and the IBM 4690 Operating System (Version 2, Release 3 or higher – when available) can drive USB-compatible devices.

Remarkable speed and functionality

High-performance processors and high-speed LAN connectivity give the IBM SurePOS 700 Series the power retailers need to execute sales and service transactions rapidly. The IBM SurePOS 700 Series also offers Direct Memory Access (DMA) hard drives, which bypass the CPU to transfer data to and from peripheral devices. This level of performance helps you run customer loyalty and electronic marketing programs effortlessly, as well as Web-enabled applications.

Dynamic multimedia capabilities

Multimedia retail applications – including programs for instant advertising, merchandising and other customer service activities – can enhance the shopping experience and increase sales opportunities. Computer and video-based programs can shorten employee training time. To help you take advantage of these opportunities, the IBM SurePOS 700 Series incorporates the latest tools for multimedia, such as an optional integrated CD-ROM or DVD player. Digital Visual Interface (DVI) video offers a unified analog/digital solution so you can run conventional and high-performance video applications today, as well as higher-performance digital video solutions as they become available.

Long-term investment protection

To protect your technology investment, you need scalable solutions that can adapt to your changing needs for functionality and performance. That is why the IBM SurePOS 700 Series allows you to select the right capabilities for your current retail environment, then add new capabilities smoothly and affordably. A wide range of processing speeds and systems lets you run existing applications, or move to new applications when the time is right. Additional slots and bays let you add new functionality at any time – without replacing the system unit.

Lower total cost of ownership

To help reduce total cost of ownership and improve system management, the IBM SurePOS 700 Series offers a number of important features:

- Advanced Power Management (APM) and the Advanced Configuration and Power Interface (ACPI) reduce power consumption for lower energy costs.

- Battery backup (in conjunction with APM and ACPI) allows POS transactions to be completed in the event of AC power loss and maintains power to the system, and then places the system in standby mode allowing the application to remain loaded – which minimizes support costs.

- System management support by complying with the industry-standard Wired for Management (WfM) initiative. This enables these solutions to be managed from a central location by Tivoli™, LANClient Control Manager™ (LCCM) and other systems management tools, minimizing support costs.

- Wake on LAN provides the ability to utilize the power and systems management functions to maintain the system, even if it is unattended or powered down.

- Service and support includes one-year warranty service delivered by trained IBM representatives and authorized IBM Business Partners. Post-warranty maintenance services, and a variety of other services that can be tailored to your specific requirements, are also available.

IBM SurePOS 700 Series at a glance

Standard Features: SurePOS 730 and SurePOS 750

Model Numbers	IBM SurePOS 730 4800-102	IBM SurePOS 730 4800-142	IBM SurePOS 750 4800-202	IBM SurePOS 750 4800-242
Processors	400 MHz AMD-K6®-2, socketed	400 MHz AMD-K6-2, socketed	500 MHz Intel® Celeron™, socketed	500 MHz Intel Celeron, socketed
LAN (onboard)	Ethernet 10/100	Ethernet 10/100	Ethernet 10/100	Ethernet 10/100
Memory				
(DIMM)	32MB (upgradable to 256MB)	32MB (upgradable to 256MB)	64MB (upgradable to 256MB)	64MB (upgradable to 256MB)
NVRAM	128KB	128KB	128KB	128KB
Video Memory	4MB	4MB	4MB	4MB
Hard Drive Bays (optional)	1	1	1	2
Floppy (optional)	1.44MB	1.44MB	1.44MB	1.44MB
CD-ROM (optional)	No	No	40X	40X
DVD-ROM (optional)	No	No	8X	8X
PCI Slots	1 half sized	1 half sized	3 half sized	3 half sized
Bays	2 Total	2 Total	3 Total	4 Total
3.5"	2	2	2	3
5.25"	No	No	1	1
Adapter Card Options				
NVRAM	N/A	N/A	PCI 32KB	PCI 32KB
Ports				
DVI-I Video	1	1	1	1
External Ports				
+12V USB	5	5	7	7
+24V USB	1	1	1	1
+24V (Cash Drawer)	2	2	2	2
RJ45 Ethernet	1	1	1	1
PS/2 Keyboard	1	1	1	1
RS 232 Ports	2	2	2	2
Parallel Port	1	1	1	1
AC Convenience Outlets	1	1	1	1
Power and System Management				
System Management	WfM 1.1, DMI 2.0	WfM 1.1, DMI 2.0	WfM 1.1, DMI 2.0	WfM 1.1, DMI 2.0
Power Management	APM 1.2 / ACPI 1.0	APM 1.2 / ACPI 1.0	APM 1.2 / ACPI 1.0	APM 1.2 / ACPI 1.0
Wake on LAN	Yes	Yes	Yes	Yes
Battery	Optional	Optional	Yes	Yes
Weight	22.25lb / 10.1kg (w/Batt) 18.35lb / 8.3kg (w/o Batt)	24.15lb / 11kg (w/Batt) 20.25lb / 9.2kg (w/o Batt)	34.25lb / 15.6kg	35.25lb / 16kg
Power Requirements	100-127 VAC / 200-240 VAC 50/60 Hz 250 W Max/60 W Typical	100-127 VAC / 200-240 VAC 50/60 Hz 250 W Max/60 W Typical	100-127 VAC / 200-240 VAC 50/60 Hz 370 W Max/85 W Typical	100-127 VAC / 200-240 VAC 50/60 Hz 370 W Max/85 W Typical
Dimensions (W/D/H)				
mm	319x464x92	435x464x76	319x464x133	435x464x125
inches	12.5x18.25x3.625	17.125x18.25x3	12.56x18.25x5.25	17.125x18.25x4.94

Standard Features:	SureBase Model 4800-001

- NVRAM: 128KB
- External Ports:
  +12V USB: 5
  +24V USB: 1
  +24V (Cash Drawer): 2
- AC Power Convenience Outlets: 3
- Uninterruptible Power Supply (UPS): 340W/ 550 VA*
- Weight: 31lb (68.2 kg)
- Power Requirements:
  100-127 VAC, 200-240 VAC
  50/60 Hz 170 W Max
- Dimensions (W/D/H):
  435mm x 464mm x 76mm
  17.125" x 18.25" x 3"

Keyboards

- **USB ANPOS Keyboard:** "QWERTY" style alphanumeric keys with 12 function keys, plus 33 reconfigurable, relegendable POS function keys; seven indicator lights; numeric keypad; 3-track or JUCC MSR; adjustable tone; control key; and two or four position keylock.
- **USB 50 Key Keyboard without MSR:** 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 gives an additional 38 POS function keys; 4 indicator lights; two-position keylock; adjustable keyboard tone.
- **USB 50 Key Keyboard with MSR:** 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 gives an additional 38 POS function keys; 4 indicator lights; two or four position keylock; adjustable keyboard tone; 3-track MSR or JUCC MSR.
- **USB 50 Key Keyboard with MSR and LCD:** All the above functions plus 40-character LCD operator display.
- **USB 133 Key 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; 1-control key, four indicator lights, 3-track MSR, adjustable tone and 2-position keylock.
- **USB PLU Keyboard/Display:** This unit consists of major functional components which includes a PLU (Price Look-up) Keyboard, PLU operator or customer displays. The functions of the PLU Keyboard are similar to the USB Keyboard - V, with the exception of the number of keys, beeper tone volume, and the JUCC MSR and mode key are also omitted.
- **USB Keyboard V:** This keyboard unit consists of the following keyboard components: key matrix, beeper, system indicators, mode key lock switch and integrated JUCC MSR.
- **USB PLU Extension Box:** This unit consists of functional portions which are power unit, "I" port to the system unit and four connectors to the I/O devices. The four connectors are for the USB PLU Keyboard/Display.
- **USB ANKPOS Keyboard:** This keyboard unit contains a PC keyboard type alphanumeric layout on the left side of the keyboard and a POS type key button layout on the right side. The USB ANKPOS Keyboard is supplied with customer redefinable and relegendable key tops.
- **USB 50 Key Keyboard w/JUCC MSR:** This keyboard unit contains an integrated two-head MSR for reading the magnetic stripes located on both sides of a credit card. The keytops are relegendable to allow the customer to customize the keyboard.

* The UPS is rated at 340W/550VA. 170W/280VA is available for powering devices attached to the 3 AC Power Convenience Outlets on the rear of the SureBase. The rest of the UPS is dedicated to powering the SureBase and the POS peripherals attached to the SureBase.

Displays	• **IBM SurePoint™ Solution:** This system provides up to five interface options in a single device: full-screen display; touch-screen display; 32-key keypad/MSR; pointing device for navigating browser and Windows-based applications; and speaker/microphone system for audio applications.
	• **USB 40 Character VFD (1-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.
	• **USB 40 Character VFD (2-sided):** Two 40-character VFD displays back to back in one cover, which can show different messages; this display does not tilt.
	• **USB 40 Character LCD:** Provides a 2x20 liquid crystal display 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 5 feet; two displays on one pole can show different messages.
	• **USB Character/Graphics Display:** Provides a Vacuum Fluorescent Display (VFD) that operates in both text and graphics modes. The text mode displays numeric and alphabetic characters in two rows of 20 characters each in an 8x16 dot matrix. In graphics mode, it displays images or characters on a 160x36 dot matrix screen. Each of the dots is individually addressable.
	• **Color CRT Display:** 8.7-inch viewable screen; SVGA resolution (tilt and rotate; integrated configuration supported on models 001, 142 and 242; distributed configuration supported on all models).
	• **Monochrome CRT Display:** 8.5-inch viewable screen; SVGA resolution (tilt and rotate; integrated configuration supported on models 001, 142 and 242; distributed configuration supported on all models).
Printers	• **IBM 4610 SureMark™ Printer:** Two-station, thermal receipt, impact document insert printer, receipt prints up to 52 lps. Offers USB or combination RS232/RS485 connectivity. The IBM SureMark Model TI5 offers DBCS support.
	• **IBM 4689-TD5 SurePOS Printer:** Two-station, thermal receipt and journal printer, receipt prints up to 26 LPs. Offers a combination of both USB and RS-485 connectivity (available in Japan and other select Asia Pacific countries only).
Scanners	• **IBM 4685 SurePOS Scanner (Model S01):** CCD hand held bar code scanners with USB interface.
	• **IBM 4685 SurePOS Scanner (Model L0H):** Laser hand held bar code scanner with USB interface.
	• **IBM 4685 SurePOS Scanner (Model L0C):** Compact fixed scanners with USB interface.
	• **IBM 4698 SurePOS Scanner (Model 101):** Two plane fixed scanners with USB interface.
Cash Drawers	• **Wide Cash Drawer:** Integrated configuration supports models 001, 142 and 242; distributed configuration supports all models; media slot; lock; removable tills with fixed or adjustable compartments.
	• **Compact Cash Drawer:** Integrated configuration supports models 102 and 202; distributed configuration supports all models; media slot; lock; vertical or horizontal bill storage in removable till inserts with adjustable compartments.
Software	The IBM SurePOS 700 Series supports the following operating systems upon availability:
	• Microsoft Windows 98 (Second Edition)
	• Microsoft Windows 2000 (Professional Edition)
	• Java™POS Retail Standard
	• OPOS Retail Standard
Limited Warranty [1]	1 year, on-site service

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