



IBM SurePOS Family



# *IBM SureMark Printers*

*Fast, dependable point-of-sale printing for demanding retail environments*



# SureMark

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### **Highlights**

#### **Powerful performance**

*IBM SureMark™ Printers deliver 52 lines per second (lps) for Single Byte Character Set (SBCS) output, and 50 lps for Double Byte Character Set (DBCS) output. Impact slip printing handles multipart forms and checks. Font designs make receipts crisper and clearer, and single-pass check handling reduces the risk of human error.*

#### **Engineered for retail**

*SureMark Printers use durable hardware and printing mechanisms and have a proven record of operation. Their footprint is the smallest in their class, so they fit where you need them. Drop-and-load paper handling is quick and virtually error-proof.*

## *Superior speed for POS printing*

### **High-powered POS performance**

These quiet, high-quality thermal receipt printers set a new standard for speed. Models T13 and T14 deliver 52 lps for SBCS output. Model T15 offers 50 lps, with full DBCS support for retailers in China, Hong Kong, Japan, Korea and Taiwan. This pace enables retailers to print logos, coupons and marketing messages on receipts without compromising transaction time. Fast printing also supports applications that print after transaction completion, which eliminates voids and groups duplicated items. The result is a clean receipt that can be quickly scanned for accuracy.

Font designs in the SureMark Printers make receipts crisper and clearer. And for printing on checks or multipart forms, an impact slip printing station is included.

### **Single-pass check handling**

Model T14 supports single-pass check handling. Just place checks in the impact slip station and the printer can complete the task in 14 seconds. Inline MICR reading reduces check verification errors. After approval, the printer endorses the back, flips the check and prints on the check face to reduce the number of steps for the operator. Conventional handling of MICR reading, check endorsing and printing are all available as well. For check handling without MICR reading or check flipping, choose Model T13.

### **Investment protection**

*SureMark Printers support USB and RS-485/RS-232 connections. Modular interface adapters give you the flexibility to choose the best interface today, then upgrade when the time is right. USB offers hot plug/unplug capabilities, plus system configurations and device drivers are loaded automatically.*

### **Compact, easy-to-use design**

Drop-and-load paper handling makes refills quick and easy. Changing ribbons is simple as well. Just lift off the old cartridge, snap the new one in and turn the knob. With the most compact footprints in their class, SureMark Printers take up a minimum of counter space.

### **Flexible options to protect your investment**

SureMark Printers work with a variety of POS hardware, including many non-IBM systems. They support USB and RS-485/RS-232 via modular adapters, so you can easily upgrade these printers if your hardware configuration changes. Select the interface that best supports your current hardware investment, then migrate to new platforms – such as the IBM SurePOS™ 700 Series, with USB connectivity – at your own pace.

Customers in Asia Pacific can use their existing applications with Model TI5 in SBCS mode and migrate to a DBCS application at their own pace. Model TI5 allows retailers to switch between DBCS mode and SBCS mode electronically, with no mechanical adjustments. In SBCS mode, Model TI5 operates like Model TI3.

### **One global solution**

International and global retailers can use the SureMark Printers as a single worldwide printer platform to improve service and support efficiency. 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.

### **Multiuse printer memory**

SureMark Printers offer several benefits to merchants without sacrificing transaction times. They store barcodes, trailers, graphics, logos and user-defined character tables in flash memory, allowing retailers to use the printer as a marketing tool. The return process can also be improved by printing barcodes on the receipts, which can result in better customer service. By using the printer flash memory, less data must be transferred from the POS terminal to the printer, which minimizes print time. An optional 2MB is available (via RPQ) for retailers who need additional capacity for temporary storage of electronic journaling data.



**IBM SureMark Printers at a glance**

	<b>Model TI3 and Model TI4</b>	<b>Model TI5</b>
<b>Speed</b> Thermal receipt station	<ul style="list-style-type: none"> <li>• 52 lps at 8 lines per inch</li> <li>• 39 lps at 6 lines per inch</li> </ul>	<ul style="list-style-type: none"> <li>• 52 lps at 8 lines per inch (SBCS)</li> <li>• 39 lps at 6 lines per inch</li> <li>• 50 lps at 7.7 lines per inch (DBCS)</li> <li>• 6.5 inches per second</li> </ul>
Impact slip station	<ul style="list-style-type: none"> <li>• 4.3 lps</li> </ul>	<ul style="list-style-type: none"> <li>• 4.3 lps (SBCS and Hanguel)</li> <li>• 2.2 lps (Traditional and Simplified Chinese, Katakana and Kanji)</li> </ul>
<b>Interfaces</b> USB	<ul style="list-style-type: none"> <li>• For attachment to the IBM SurePOS 700 Series (no separate power supply required)</li> <li>• For attachment to PCs and other POS vendors' terminals (power supply required, see optional features)</li> </ul>	
RS-485	<ul style="list-style-type: none"> <li>• For attachment to IBM 4683, 4693 and 4694 POS terminals</li> <li>• For attachment to 4694 POS terminals in Model TI5</li> <li>• Separate power supply not required</li> <li>• Both SBCS and DBCS 4694 models supported in Model TI5</li> </ul>	
RS-232	<ul style="list-style-type: none"> <li>• For attachment to the IBM 4614 SureOne™ POS terminal, IBM 4695 POS terminals, PCs or other POS vendors' terminals</li> <li>• DTR/DSR or XON/XOFF communications mode</li> <li>• 9-pin D-shell connector at 9.6 Kbaud or 19.2 Kbaud</li> <li>• Power supply required (see optional features)</li> </ul>	
<b>Printing characteristics</b> Thermal print resolution	8 dots per mm (203 dots per in.)	
Font A (SBCS)	<ul style="list-style-type: none"> <li>• 15 or 17 characters per inch</li> <li>• Receipt: 10x20 dot characters, 44 or 48 characters per line on 80 mm (3.15 in.) paper</li> <li>• Slip: 47 or 52 characters per line on inserted documents</li> </ul>	
Font B (SBCS)	<ul style="list-style-type: none"> <li>• 12 characters per inch</li> <li>• Receipt: 12x24 dot characters, 34 characters per line on 80 mm (3.15 in.) paper</li> <li>• Slip: 37 characters per line on inserted documents</li> </ul>	
DBCS characters (Model TI5 only)	<ul style="list-style-type: none"> <li>• Thermal: 24x24 dot characters at 19 characters per line (all languages)</li> <li>• Impact (Hanguel): 9x16 dot characters at 21 characters per line</li> <li>• Impact (Traditional and Simplified Chinese, Katakana and Kanji): 16x16 dot characters at 12 characters per line</li> </ul>	
Additional choices	<ul style="list-style-type: none"> <li>• Double-wide or double-high characters</li> <li>• Double-wide and double-high characters</li> <li>• Underscore/overscore (receipt only)</li> <li>• Reverse image (receipt only)</li> <li>• 90° rotation of characters (receipt only)</li> <li>• Portrait or landscape (slip only)</li> </ul>	
<b>Character sets</b> Code pages (SBCS)	437 (U.S.), 858 (International), 860 (Portuguese), 863 (Canadian French), 865 (Norwegian)	
Code pages (DBCS)*	–	932 (Japanese), 950 (Traditional Chinese), 1381 (Simplified Chinese), 949 (Hanguel)
User-specified	4 additional thermal and 2 additional impact code pages	3 additional thermal and 1 additional impact code pages
Euro-ready	Yes	Yes
<b>Resident barcode formats</b>	UPC A/E, EAN 8, EAN 13, JAN 8, JAN 13, Code 39, ITF, Code 93, Code 128, Codabar, PDF 417	
<b>Memory usage</b> 16 KB data buffer RAM	Yes	Yes
Microcode (can be updated by user)	Yes	Yes
256 KB flash memory accessible to user for storage of fixed messages, logos and graphics, additional code pages, and electronic journal or other user data storage	Yes	Yes
Optional 2MB flash memory for temporary storage of electronic journal data (RPQ)	Yes	No
1.6 MB flash memory for storage of DBCS characters	–	Yes

\* All character sets can be downloaded using a utility available from the IBM Retail Store Solutions Web site at [www.ibm.com/solutions/retail/store](http://www.ibm.com/solutions/retail/store). Not all four code pages may be resident simultaneously.

**IBM SureMark Printers at a glance (continued)**

	<b>Model T13 and Model T14</b>	<b>Model T15</b>
<b>Special features</b> (Model T14 only)	<ul style="list-style-type: none"> <li>• MICR: Reads E13B and CMC7 fonts; Auto Switch feature detects which format is being used and decodes accordingly</li> <li>• Check-handling: Under program control MICR is read and sent to POS, check is franked, flipped over and printed on face</li> <li>• Flipped documents dimensions: 66mm to 101mm width (2.6 in. to 4.0 in.), 80mm to 223mm length (3.14 in. to 8.8 in.)</li> </ul>	
<b>Additional standard features</b>	<ul style="list-style-type: none"> <li>• Cutter</li> <li>• Receipt out-of-paper sensor</li> <li>• Top and bottom of document sensors</li> <li>• Cash drawer port (supports two +24V cash drawers)</li> <li>• Cash drawer uses a standard RJ11 connector</li> </ul>	
<b>Optional features</b>	<ul style="list-style-type: none"> <li>• Powered USB and RS-485 cables for attachment to IBM POS systems</li> <li>• Standard USB and RS-232 cables for attachment to PCs</li> <li>• Universal power supply for use with USB and RS-232 attachment</li> </ul>	
<b>Dimensions</b>	<ul style="list-style-type: none"> <li>• 190.5 mm W (200.5 mm W with overhanging ledge) x 272 mm D x 144 mm H front, 190 mm H back</li> <li>• 7.5 in. W (7.89 in. W with overhanging ledge) x 10.7 in. D x 5.5 in. H front, 7.5 in. H back</li> </ul>	
<b>Weight</b>	Model T13: 4.4 kg (9.6 lbs) Model T14: 4.8 kg (10.5 lbs)	4.4 kg (9.6 lbs)
<b>Supply specifications</b> Thermal paper	<ul style="list-style-type: none"> <li>• POS grade (may be recycled with other paper products)</li> <li>• Width: 80 mm (3.15 in.)</li> <li>• Diameter of roll: 80 mm (3.15 in.)</li> </ul>	
Ribbon	<ul style="list-style-type: none"> <li>• Epson® ERC35 or equivalent (black or purple)</li> </ul>	
Forms	<ul style="list-style-type: none"> <li>• Single and multipart forms</li> <li>• Original and two or more clear copies, depending on form thickness</li> <li>• Minimum width 66 mm (2.6 in.); minimum length 80 mm (3.15 in.)</li> </ul>	
<b>Operating systems</b> RS-485 connection	Drivers are available for: <ul style="list-style-type: none"> <li>• 4690 OS V1 at maintenance level 9910, 4690 OS V2, or 4690 OS V2R3. 4690 OS V2R3 includes JavaPOS™.</li> <li>• For Model T15, in DBCS mode, 4690 OS V1 and V2 DBCS support will be offered via services agreements</li> <li>• IBM PC DOS 2000 with Point-of-Sale Subsystem for DOS V1.6.0 + delta package 160(D)</li> <li>• Windows® 2000 Professional with:               <ul style="list-style-type: none"> <li>– Point-of-Sale Subsystem for Windows support from Point-of-Sale Subsystem Suite V1.1 or later</li> <li>– OPOS and JavaPOS support from POSS Suite V1.2 or later</li> </ul> </li> <li>• Windows 98 Second Edition or Microsoft® Windows NT® 4.0 with:               <ul style="list-style-type: none"> <li>– POSS/Win, OPOS and JavaPOS support from Point-of-Sale Suite V1.0 or later</li> </ul> </li> </ul>	
USB connection	Drivers are available for: <ul style="list-style-type: none"> <li>• 4690 OS V2R3. 4690 OS V2R3 includes JavaPOS 1.4. For Model T15, in DBCS mode, 4690 OS V1 and V2 DBCS support will be offered via services agreements</li> <li>• Windows 2000 Professional with:               <ul style="list-style-type: none"> <li>– Point-of-Sale Subsystem for Windows support from Point-of-Sale Subsystem Suite V1.1 or later</li> <li>– OPOS and JavaPOS support from POSS Suite V1.2 or later</li> </ul> </li> <li>• Windows 98 Second Edition or Microsoft Windows NT 4.0 with:               <ul style="list-style-type: none"> <li>– POSS/Win, OPOS and JavaPOS support from Point-of-Sale Suite V1.0 or later</li> </ul> </li> </ul>	
RS-232 connection	No driver is required for native mode RS-232 attachment <ul style="list-style-type: none"> <li>• Windows 2000 Professional with:               <ul style="list-style-type: none"> <li>– OPOS and JavaPOS support from POSS Suite V1.2 or later</li> </ul> </li> <li>• Windows 98 Second Edition or Microsoft Windows NT 4.0 with:               <ul style="list-style-type: none"> <li>– OPOS and JavaPOS support from Point-of-Sale Suite V1.0 or later</li> </ul> </li> </ul>	
<b>IBM application support with 4690 OS or Windows NT</b> (Not applicable for Model T15 in DBCS mode)	<ul style="list-style-type: none"> <li>• SurePOS ACE</li> <li>• Chain Drug Sales Application at maintenance level 9701 plus PRPQ 5799-QYP</li> <li>• 4680/4690 Supermarket Application at maintenance level 9701, APAR IR33229 plus PRPQ 5799-QYL</li> <li>• 4680/4690 General Sales Application at maintenance level 9701, APAR IR33228 plus PRPQ 5799-QYN</li> <li>• Electronic Journal function for above applications PRPQ 5799-QXL</li> </ul> Note: 4690 Terminal Services for Windows NT is required when using Windows NT 4.0 or Windows 2000 as the primary operating system with the 4690 applications listed above	
<b>Limited warranty<sup>1</sup></b>	1 year	



### **For more information**

To learn more about IBM SureMark Printers or other IBM POS solutions, contact your local IBM representative or find us on the Web at

**[www.ibm.com/solutions/retail/store](http://www.ibm.com/solutions/retail/store)**

To place an order, call 1 800 IBM-CALL (1 800 426-2255) or 1 770 863-1000 outside the U.S. and Canada.

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